FIG. 1

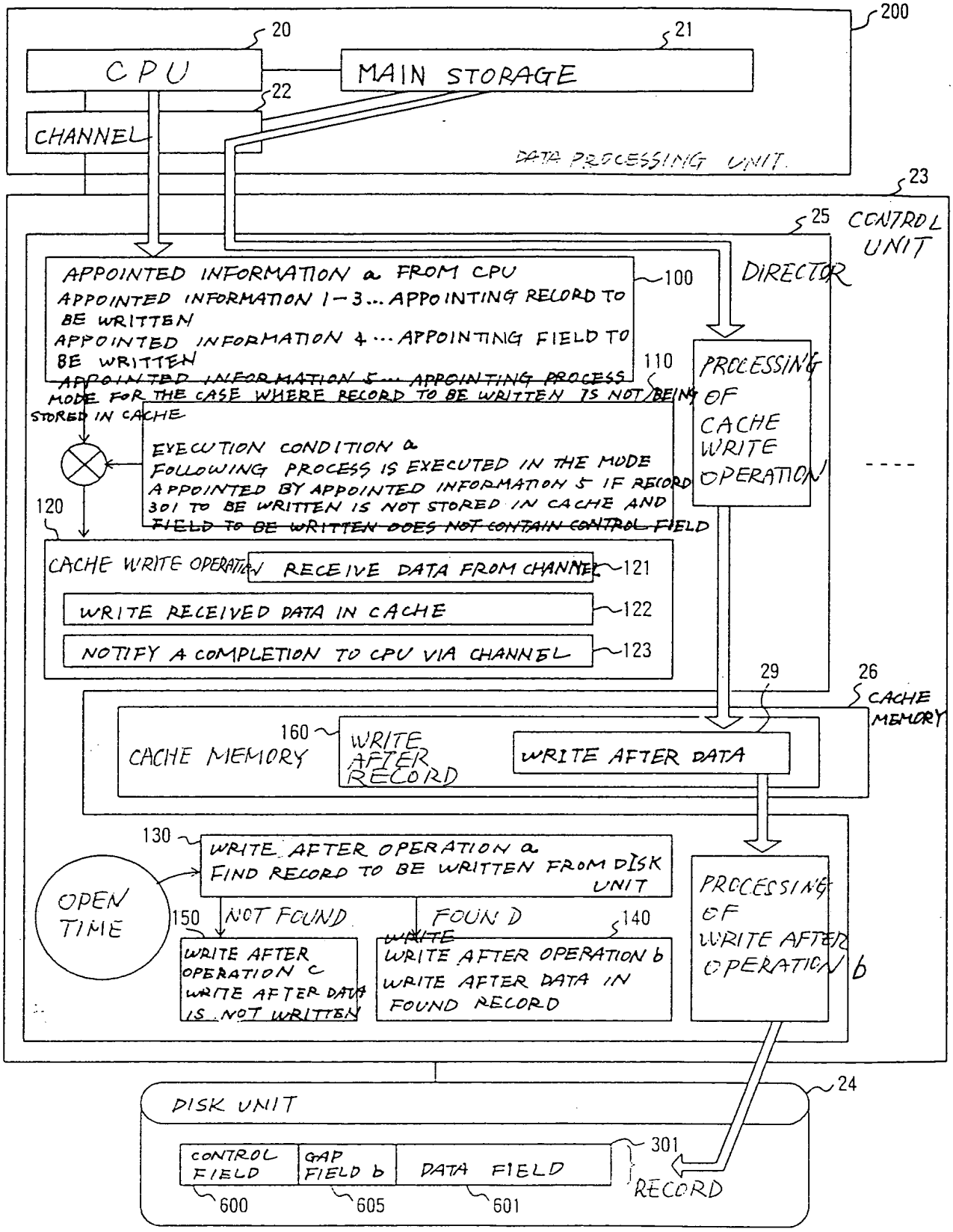
200
20
21
CPU
MAIN STORAGE
22
CHANNEL
DATA PROCESSING UNIT
23
25
CONTROL UNIT
DIRECTOR
APPOINTED INFORMATION a FROM CPU
APPOINTED INFORMATION 1-3 ... APPOINTING RECORD TO BE WRITTEN
APPOINTED INFORMATION 4 ... APPOINTING FIELD TO BE WRITTEN
APPOINTED INFORMATION 5 ... APPOINTING PROCESS MODE FOR THE CASE WHERE RECORD TO BE WRITTEN IS NOT BEING STORED IN CACHE
100
110
PROCESSING OF CACHE WRITE OPERATION
EXECUTION CONDITION a
FOLLOWING PROCESS IS EXECUTED IN THE MODE APPOINTED BY APPOINTED INFORMATION 5 IF RECORD 301 TO BE WRITTEN IS NOT STORED IN CACHE AND FIELD TO BE WRITTEN DOES NOT CONTAIN CONTROL FIELD
120
CACHE WRITE OPERATION
RECEIVE DATA FROM CHANNEL
121
WRITE RECEIVED DATA IN CACHE
122
NOTIFY A COMPLETION TO CPU VIA CHANNEL
123
29
26
CACHE MEMORY
160
CACHE MEMORY
WRITE AFTER RECORD
WRITE AFTER DATA
130
WRITE AFTER OPERATION a
FIND RECORD TO BE WRITTEN FROM DISK UNIT
OPEN TIME
150
NOT FOUND
FOUND
140
WRITE AFTER OPERATION c
WRITE AFTER DATA IS NOT WRITTEN
WRITE AFTER OPERATION b
WRITE AFTER DATA IN FOUND RECORD
PROCESSING OF WRITE AFTER OPERATION b
24
DISK UNIT
CONTROL FIELD
GAP FIELD b
DATA FIELD
301
RECORD
600
605
601

FIG. 2

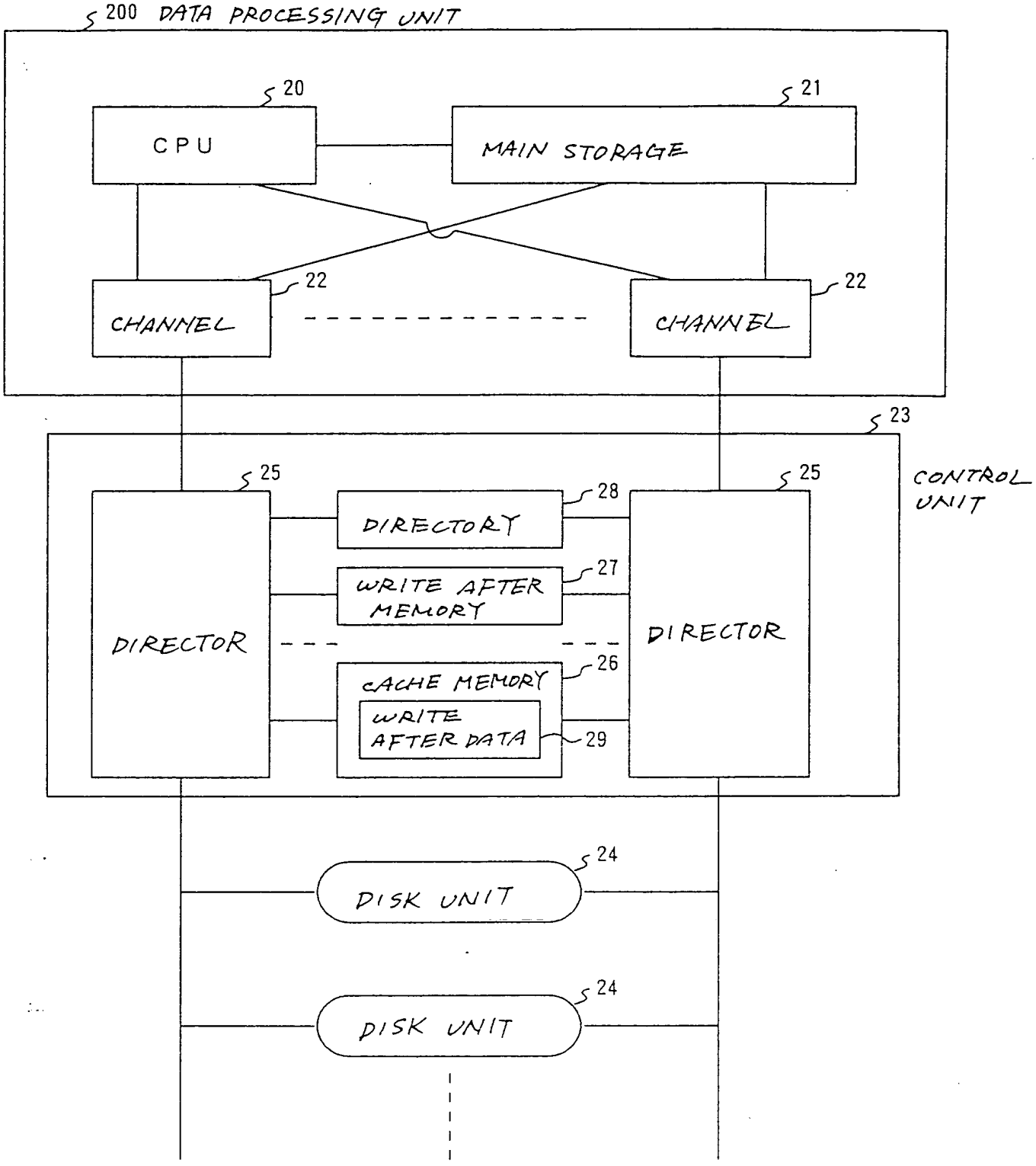
200 DATA PROCESSING UNIT
20
CPU
21
MAIN STORAGE
22
CHANNEL
22
CHANNEL
23
CONTROL UNIT
25
DIRECTOR
25
DIRECTOR
28
DIRECTORY
27
WRITE AFTER MEMORY
26
CACHE MEMORY
WRITE AFTER DATA
29
24
DISK UNIT
24
DISK UNIT

FIG. 3

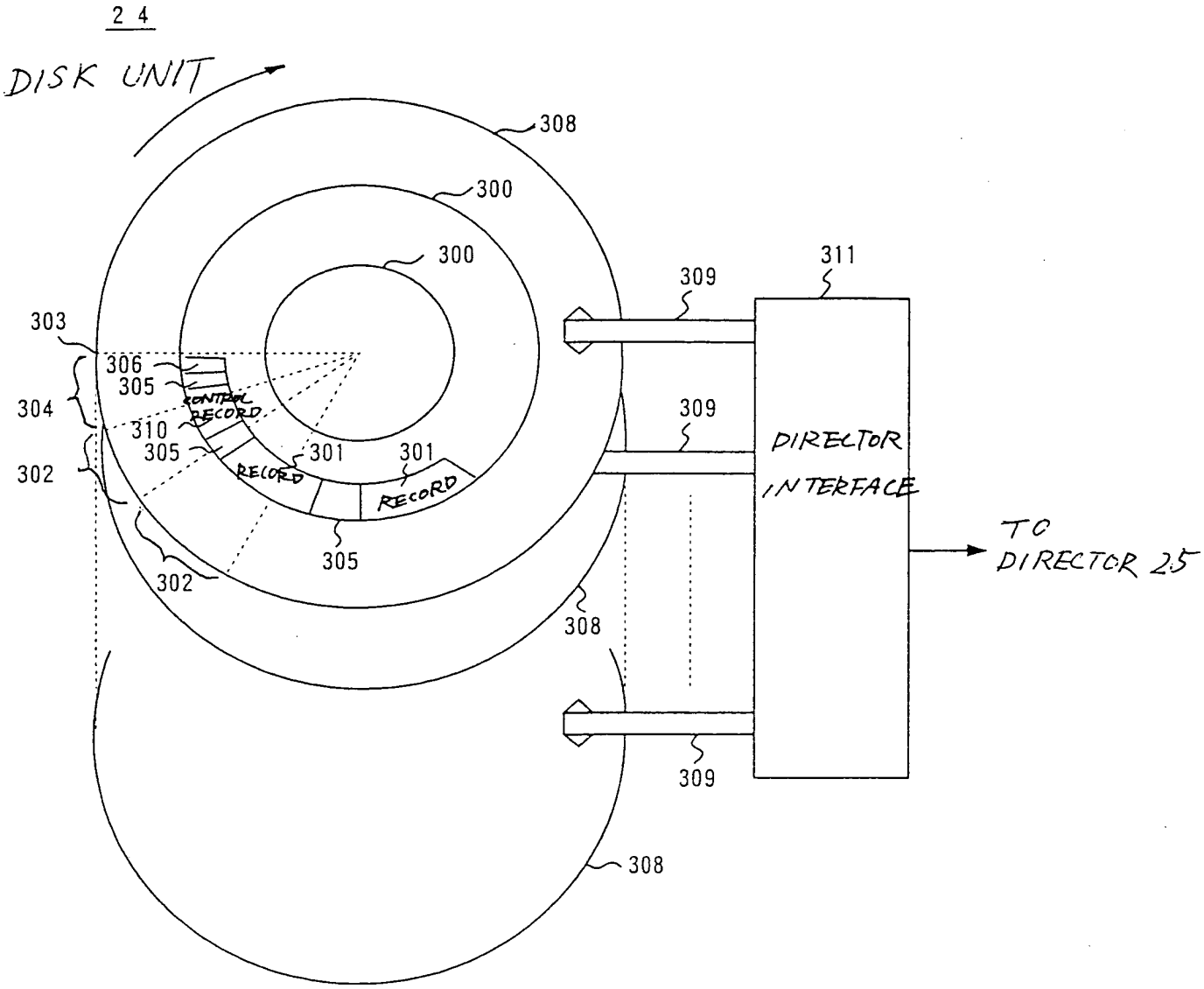
24
DISK UNIT
308
300
300
303
306
305
304
CONTROL RECORD
310
305
302
RECORD
301
301
RECORD
305
302
308
309
311
309
DIRECTOR INTERFACE
TO DIRECTOR 25
309
308

FIG. 4

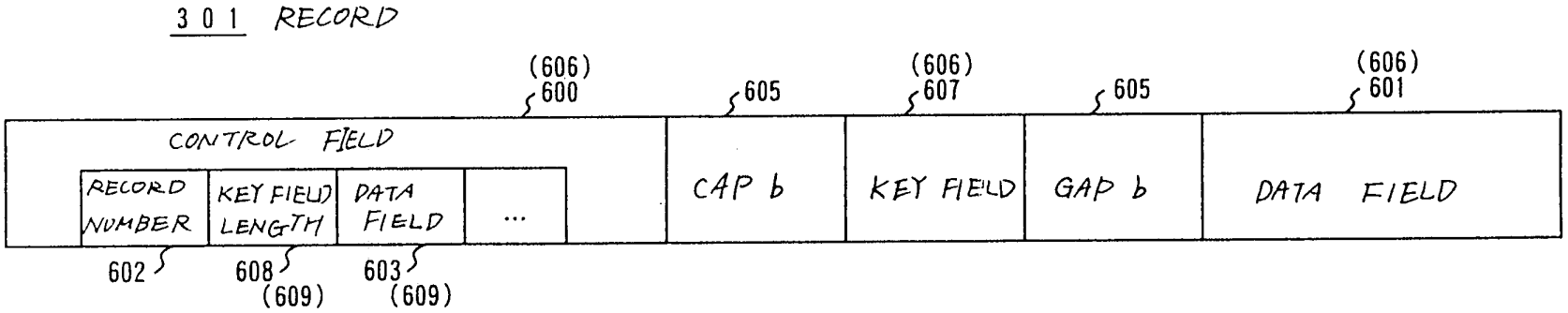

FIG. 5

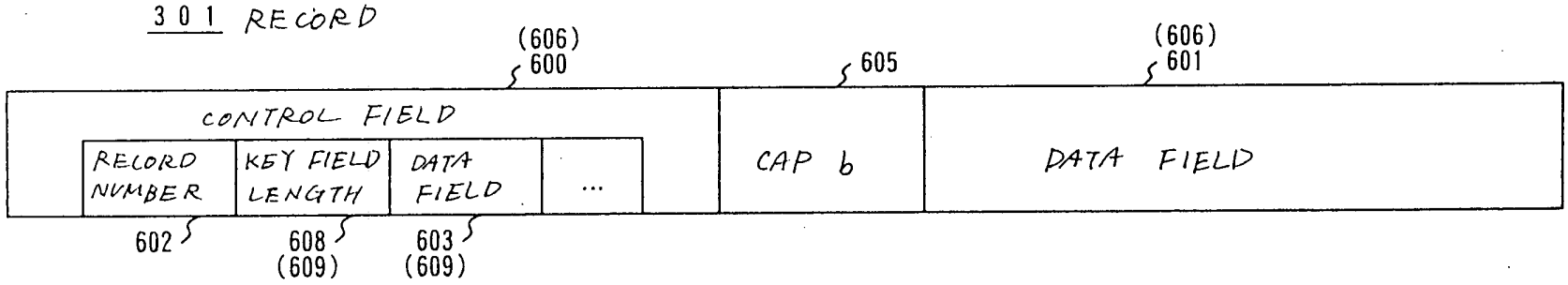

FIG. 6

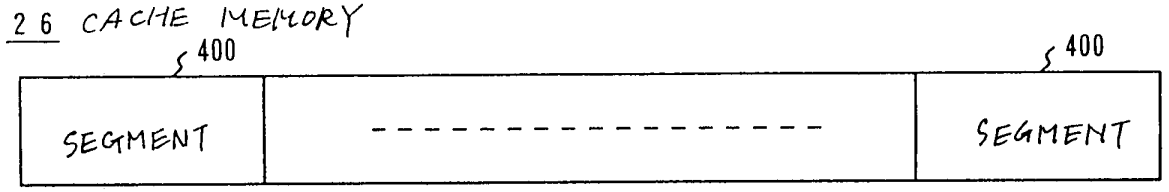

FIG. 7

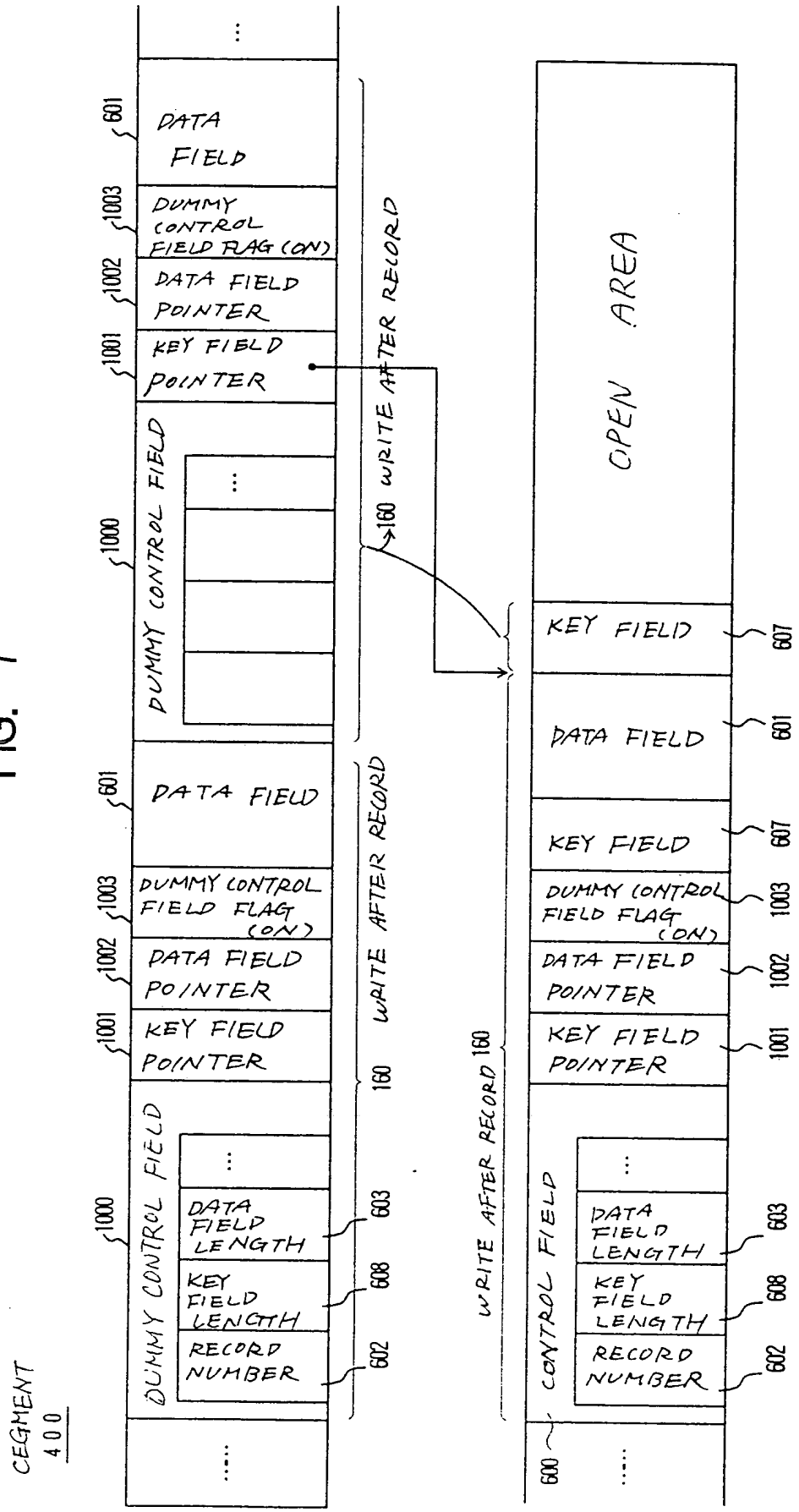
SEGMENT 400
DUMMY CONTROL FIELD
DATA FIELD LENGTH
KEY FIELD LENGTH
RECORD NUMBER
KEY FIELD POINTER
DATA FIELD POINTER
DUMMY CONTROL FIELD FLAG (ON)
DATA FIELD
WRITE AFTER RECORD
160
1000
603
608
602
1001
1002
1003
601
DUMMY CONTROL FIELD
DATA FIELD LENGTH
KEY FIELD LENGTH
RECORD NUMBER
KEY FIELD POINTER
DATA FIELD POINTER
DUMMY CONTROL FIELD FLAG (ON)
DATA FIELD
KEY FIELD
OPEN AREA
WRITE AFTER RECORD
160
600
1000
603
608
602
1001
1002
1003
601
607

FIG. 8

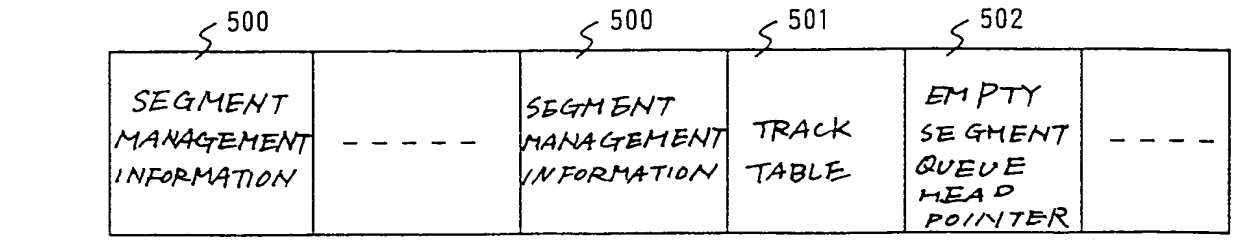
28 DIRECTORY
500
500
501
502
SEGMENT MANAGEMENT INFORMATION
SEGMENT MANAGEMENT INFORMATION
TRACK TABLE
EMPTY SEGMENT QUEUE HEAD POINTER

FIG. 9

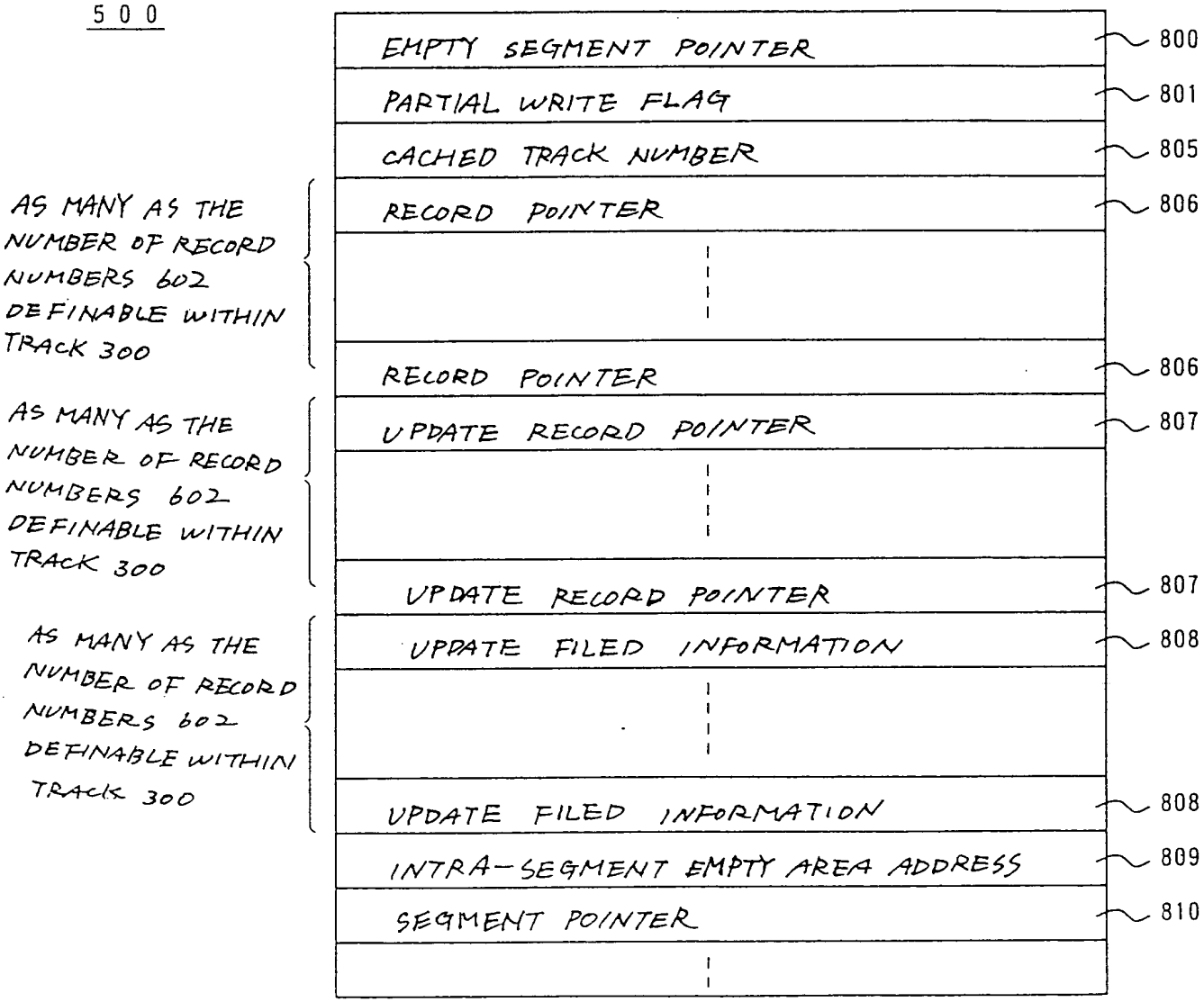
SEGMENT MANAGEMENT INFORMATION
500
EMPTY SEGMENT POINTER
800
PARTIAL WRITE FLAG
801
CACHED TRACK NUMBER
805
RECORD POINTER
806
AS MANY AS THE NUMBER OF RECORD NUMBERS 602 DEFINABLE WITHIN TRACK 300
RECORD POINTER
806
UPDATE RECORD POINTER
807
AS MANY AS THE NUMBER OF RECORD NUMBERS 602 DEFINABLE WITHIN TRACK 300
UPDATE RECORD POINTER
807
UPDATE FILED INFORMATION
808
AS MANY AS THE NUMBER OF RECORD NUMBERS 602 DEFINABLE WITHIN TRACK 300
UPDATE FILED INFORMATION
808
INTRA-SEGMENT EMPTY AREA ADDRESS
809
SEGMENT POINTER
810

FIG. 10

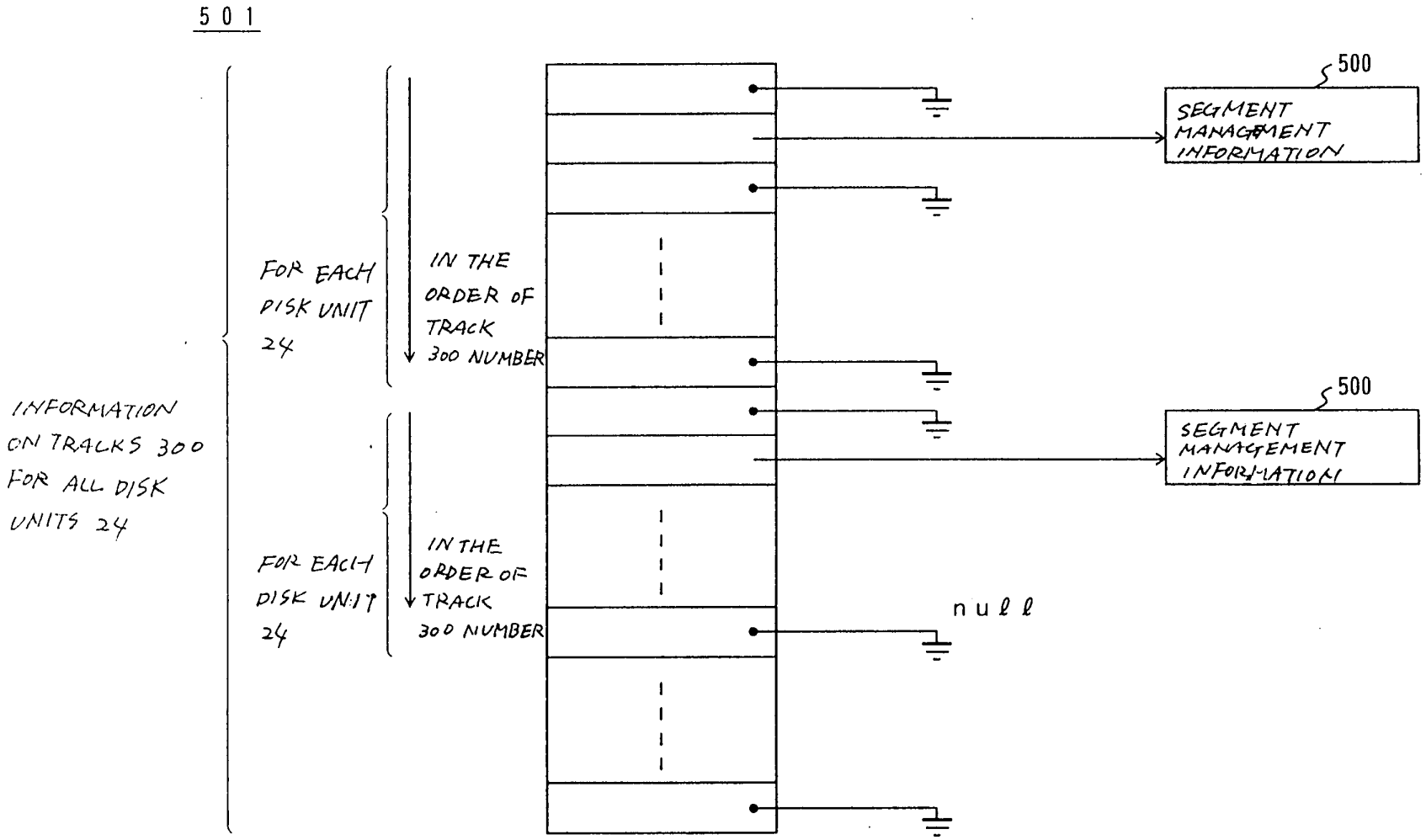
501
INFORMATION ON TRACKS 300 FOR ALL DISK UNITS 24
FOR EACH DISK UNIT 24
IN THE ORDER OF TRACK 300 NUMBER
FOR EACH DISK UNIT 24
IN THE ORDER OF TRACK 300 NUMBER
500
SEGMENT MANAGEMENT INFORMATION
500
SEGMENT MANAGEMENT INFORMATION
null

FIG. 11

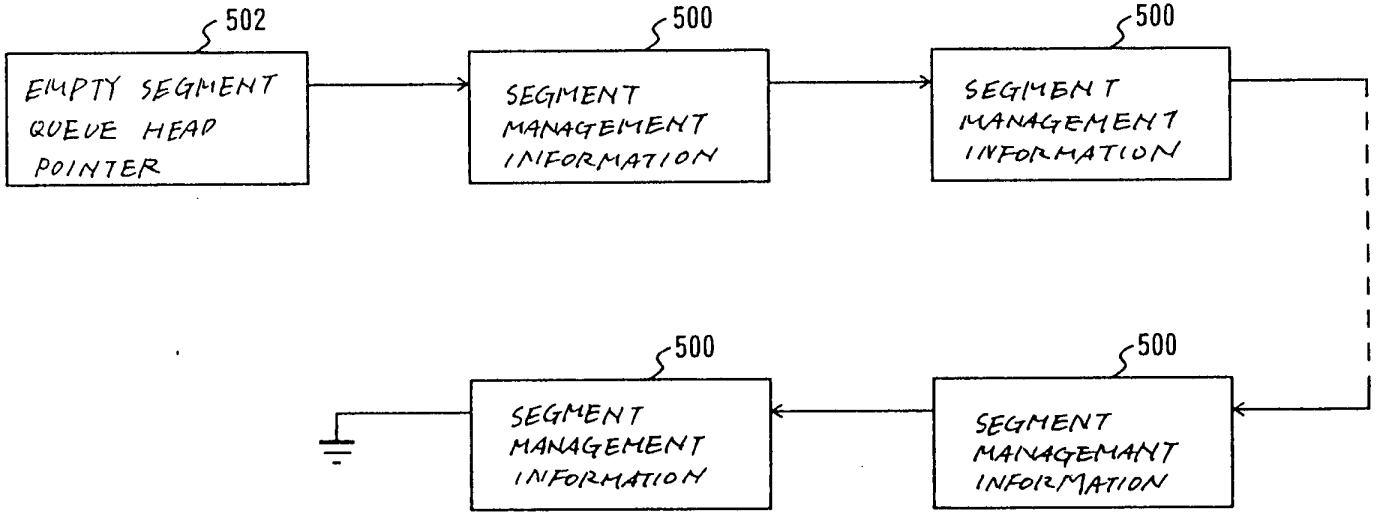
502
EMPTY SEGMENT QUEUE HEAD POINTER
500
SEGMENT MANAGEMENT INFORMATION
500
SEGMENT MANAGEMENT INFORMATION
500
SEGMENT MANAGEMENT INFORMATION
500
SEGMENT MANAGEMANT INFORMATION

FIG. 12

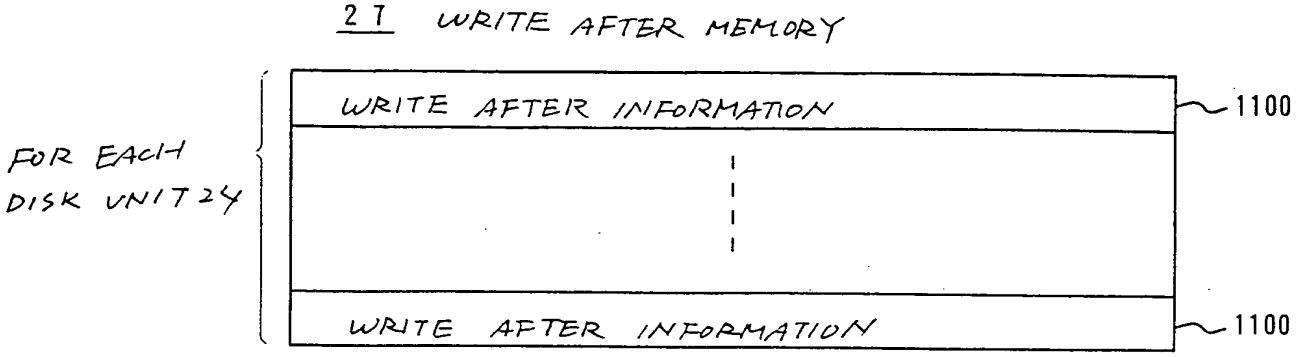

FIG. 13

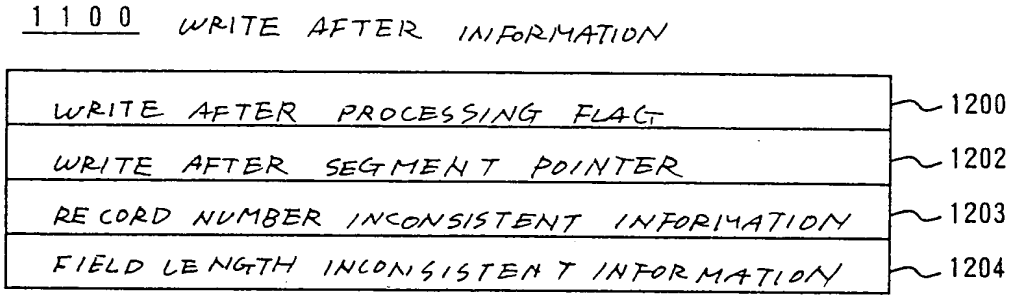

FIG. 14

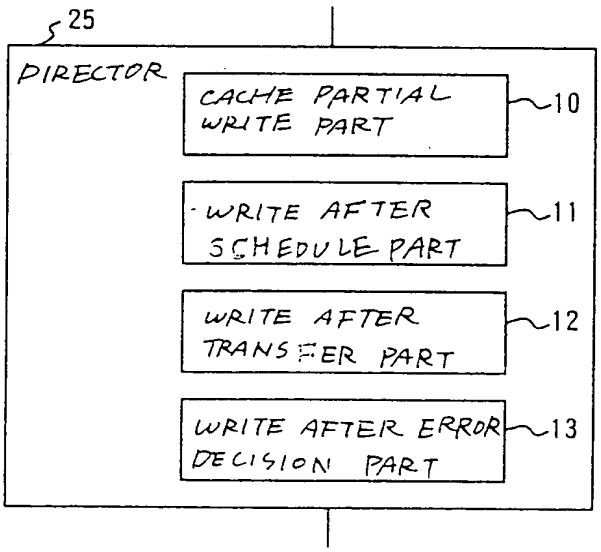

FIG. 15

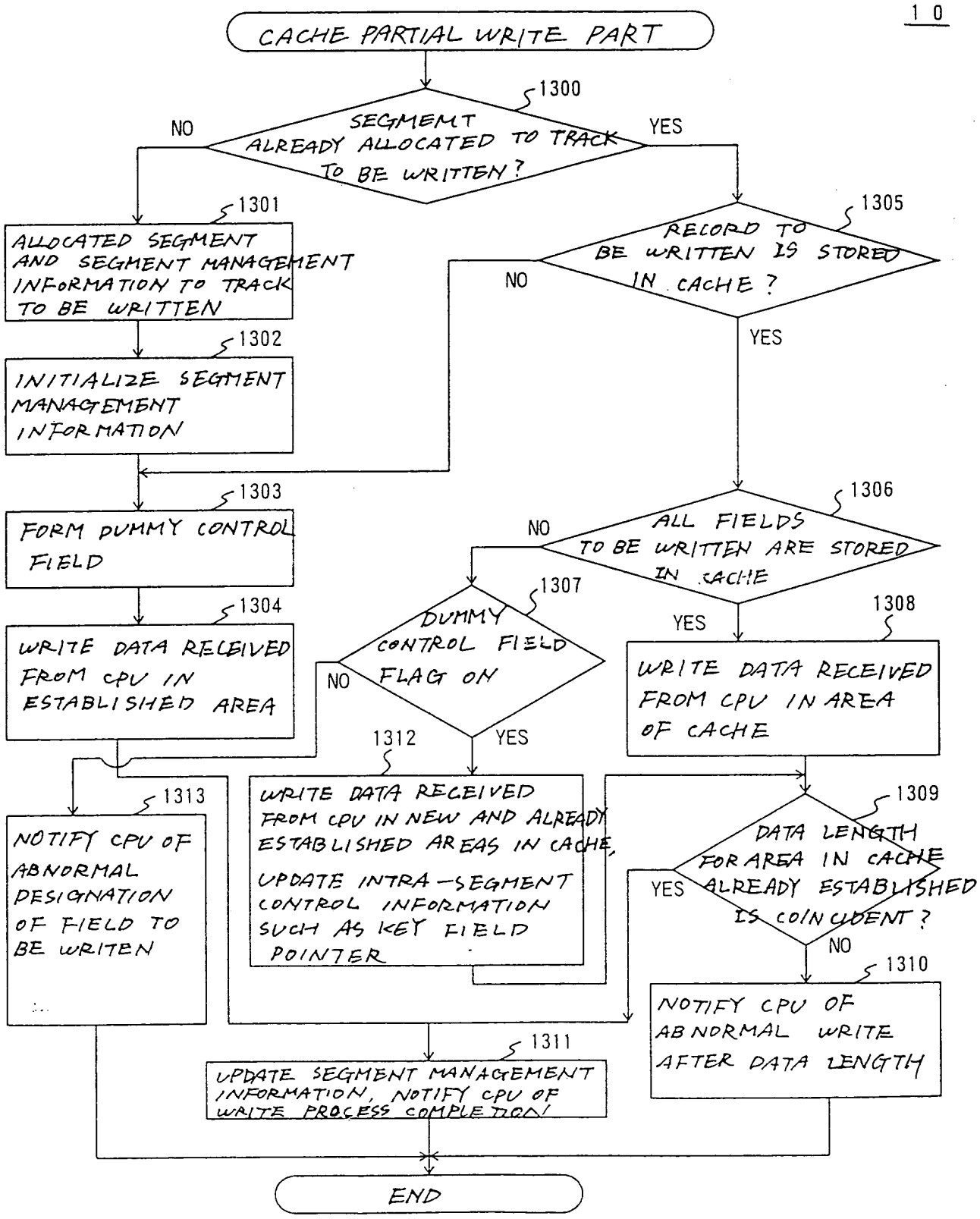
10
CACHE PARTIAL WRITE PART
1300
SEGMENT ALREADY ALLOCATED TO TRACK TO BE WRITTEN?
NO
YES
1301
ALLOCATED SEGMENT AND SEGMENT MANAGEMENT INFORMATION TO TRACK TO BE WRITTEN
1302
INITIALIZE SEGMENT MANAGEMENT INFORMATION
1303
FORM DUMMY CONTROL FIELD
1304
WRITE DATA RECEIVED FROM CPU IN ESTABLISHED AREA
1305
RECORD TO BE WRITTEN IS STORED IN CACHE?
NO
YES
1306
ALL FIELDS TO BE WRITTEN ARE STORED IN CACHE
NO
YES
1307
DUMMY CONTROL FIELD FLAG ON
NO
YES
1308
WRITE DATA RECEIVED FROM CPU IN AREA OF CACHE
1309
DATA LENGTH FOR AREA IN CACHE ALREADY ESTABLISHED IS COINCIDENT?
YES
NO
1310
NOTIFY CPU OF ABNORMAL WRITE AFTER DATA LENGTH
1312
WRITE DATA RECEIVED FROM CPU IN NEW AND ALREADY ESTABLISHED AREAS IN CACHE, UPDATE INTRA-SEGMENT CONTROL INFORMATION SUCH AS KEY FIELD POINTER
1313
NOTIFY CPU OF ABNORMAL DESIGNATION OF FIELD TO BE WRITEN
1311
UPDATE SEGMENT MANAGEMENT INFORMATION, NOTIFY CPU OF WRITE PROCESS COMPLETION
END

FIG. 16

11

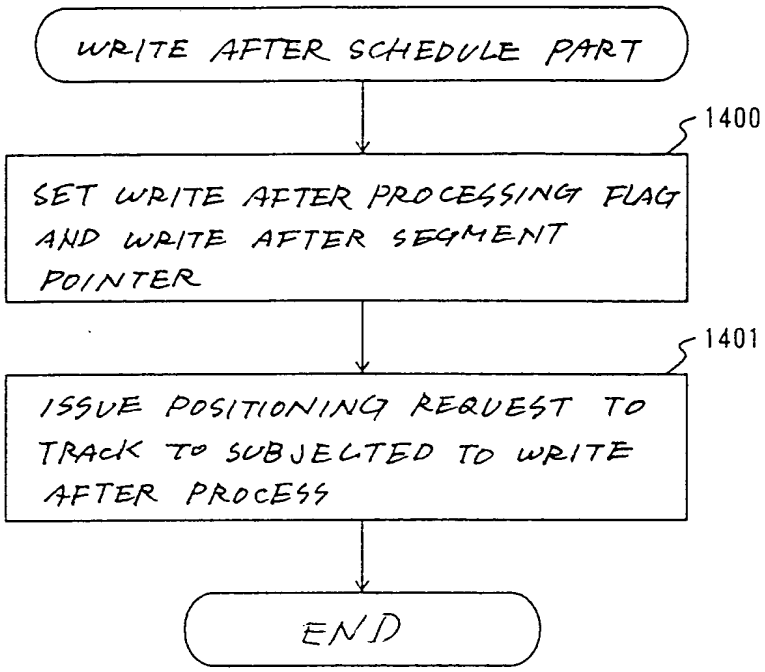
WRITE AFTER SCHEDULE PART
1400
SET WRITE AFTER PROCESSING FLAG AND WRITE AFTER SEGMENT POINTER
1401
ISSUE POSITIONING REQUEST TO TRACK TO SUBJECTED TO WRITE AFTER PROCESS
END

FIG. 17

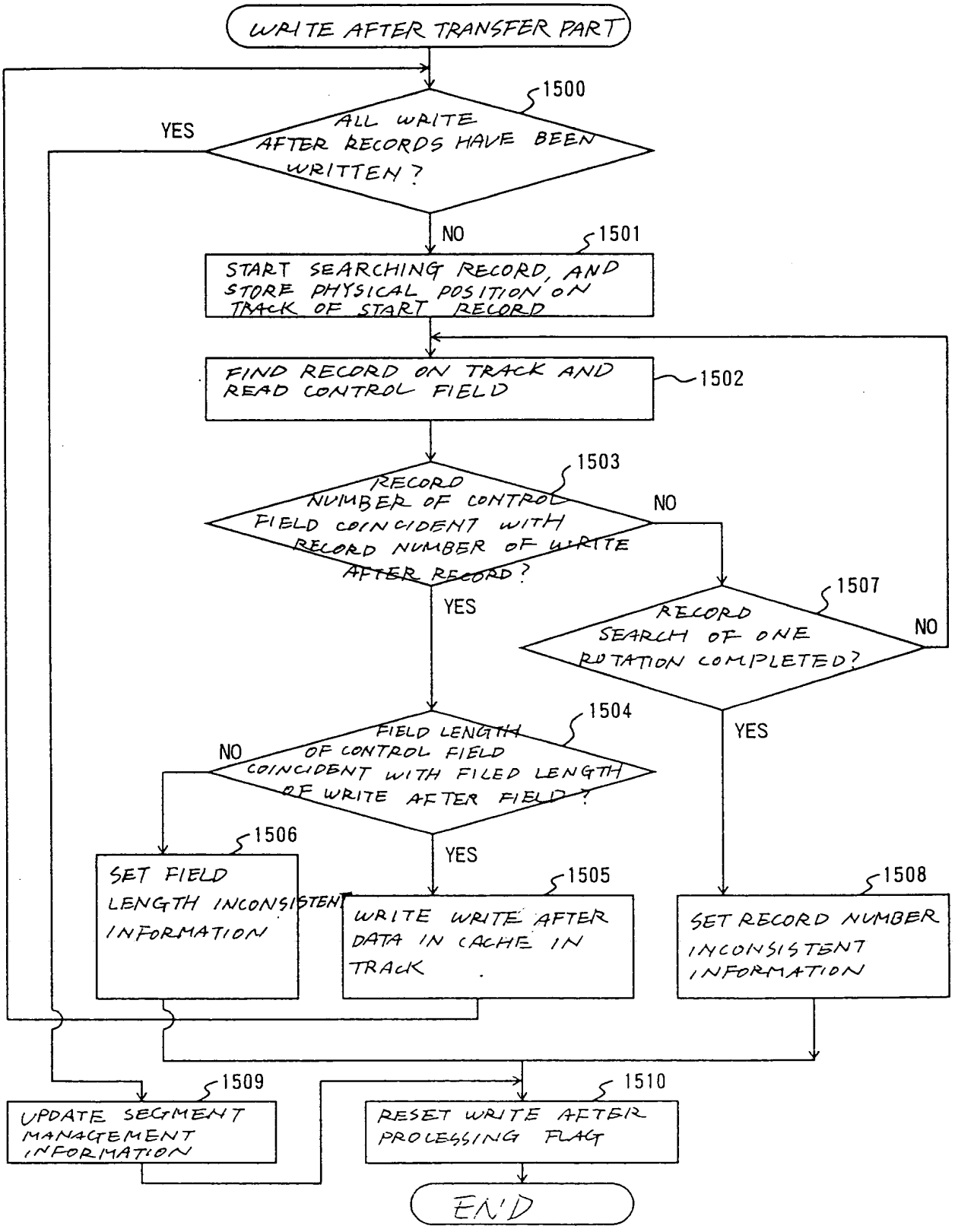
WRITE AFTER TRANSFER PART
1500
ALL WRITE AFTER RECORDS HAVE BEEN WRITTEN ?
YES
NO
1501
START SEARCHING RECORD, AND STORE PHYSICAL POSITION ON TRACK OF START RECORD
FIND RECORD ON TRACK AND READ CONTROL FIELD
1502
1503
RECORD NUMBER OF CONTROL FIELD COINCIDENT WITH RECORD NUMBER OF WRITE AFTER RECORD ?
NO
YES
1507
RECORD SEARCH OF ONE RUTATION COMPLETED?
NO
YES
1504
FIELD LENGTH OF CONTROL FIELD COINCIDENT WITH FILED LENGTH OF WRITE AFTER FIELD ?
NO
YES
1506
SET FIELD LENGTH INCONSISTENT INFORMATION
1505
WRITE WRITE AFTER DATA IN CACHE IN TRACK
1508
SET RECORD NUMBER INCONSISTENT INFORMATION
1509
UPDATE SEGMENT MANAGEMENT INFORMATION
1510
RESET WRITE AFTER PROCESSING FLAG
END

FIG. 18

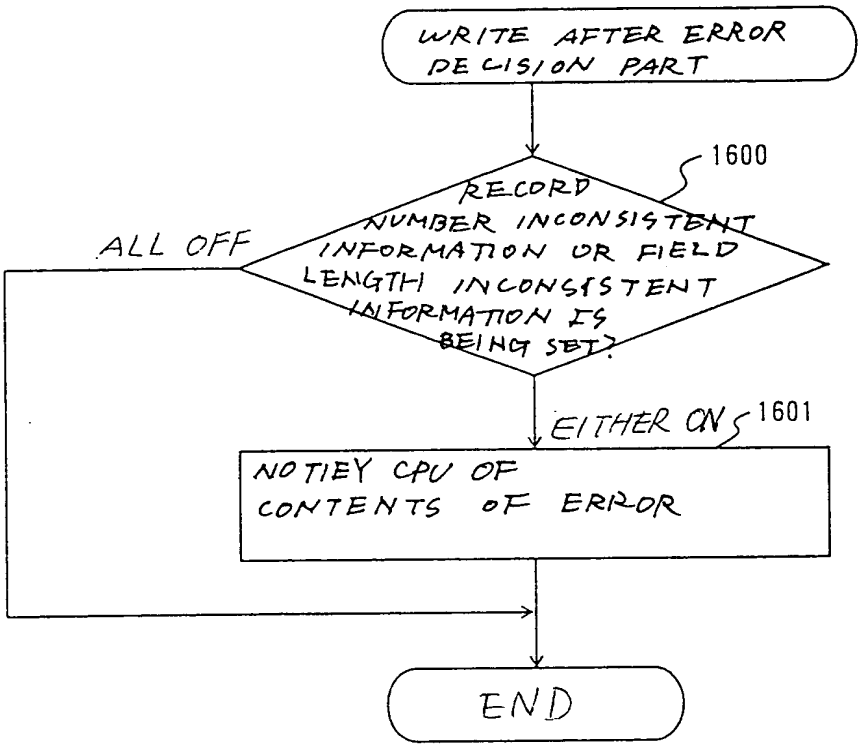
WRITE AFTER ERROR DECISION PART
1600
RECORD NUMBER INCONSISTENT INFORMATION OR FIELD LENGTH INCONSISTENT INFORMATION IS BEING SET?
ALL OFF
EITHER ON
1601
NOTIEY CPU OF CONTENTS OF ERROR
END

FIG. 19

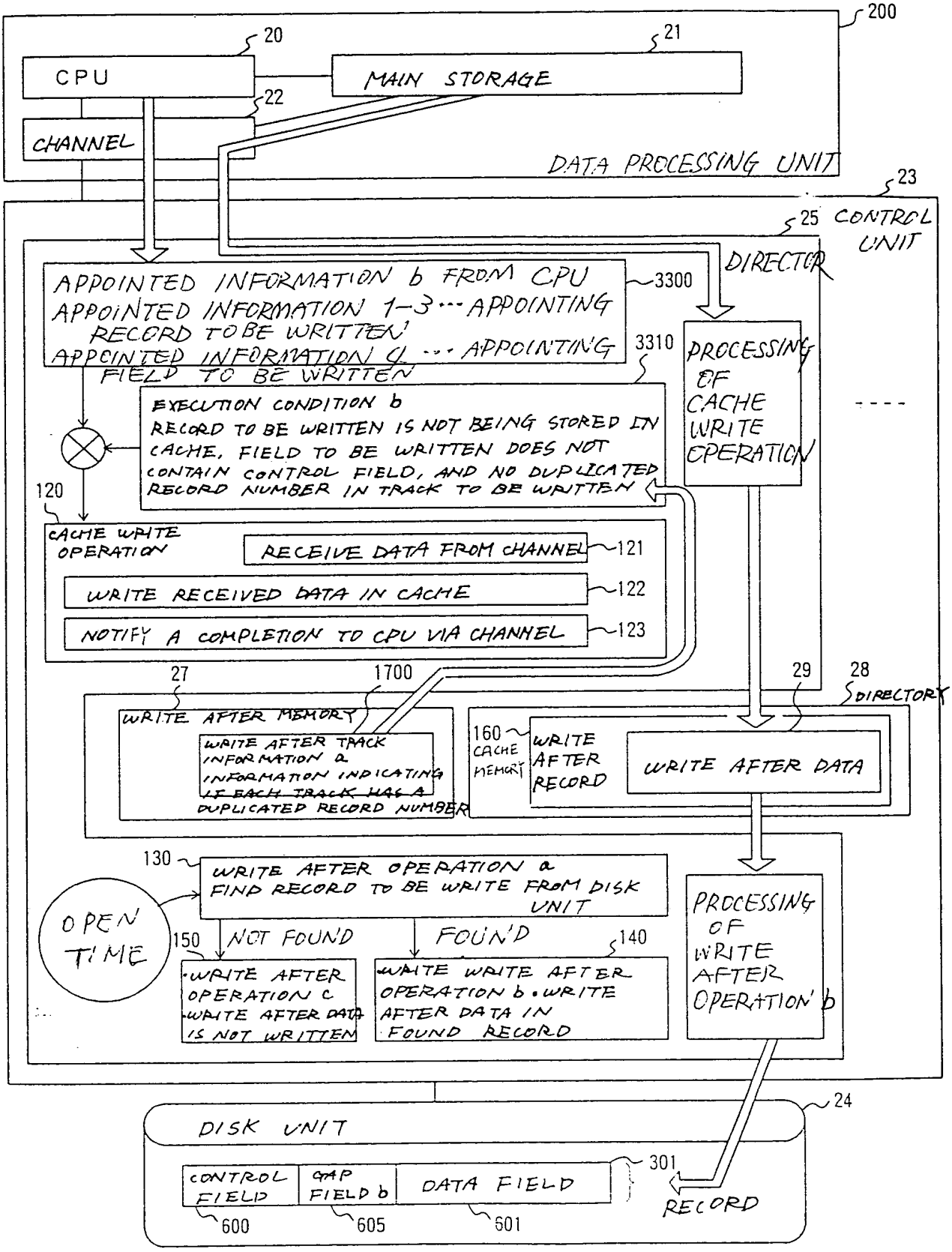
200
20
CPU
21
MAIN STORAGE
22
CHANNEL
DATA PROCESSING UNIT
23
25 CONTROL UNIT
DIRECTOR
APPOINTED INFORMATION b FROM CPU
APPOINTED INFORMATION 1-3 ··· APPOINTING RECORD TO BE WRITTEN
APPOINTED INFORMATION 4 ··· APPOINTING FIELD TO BE WRITTEN
3300
3310
PROCESSING OF CACHE WRITE OPERATION
EXECUTION CONDITION b
RECORD TO BE WRITTEN IS NOT BEING STORED IN CACHE, FIELD TO BE WRITTEN DOES NOT CONTAIN CONTROL FIELD, AND NO DUPLICATED RECORD NUMBER IN TRACK TO BE WRITTEN
120
CACHE WRITE OPERATION
RECEIVE DATA FROM CHANNEL
121
WRITE RECEIVED DATA IN CACHE
122
NOTIFY A COMPLETION TO CPU VIA CHANNEL
123
27
1700
29
28
DIRECTORY
WRITE AFTER MEMORY
WRITE AFTER TRACK INFORMATION a
INFORMATION INDICATING IF EACH TRACK HAS A DUPLICATED RECORD NUMBER
160
CACHE MEMORY
WRITE AFTER RECORD
WRITE AFTER DATA
130
WRITE AFTER OPERATION a
FIND RECORD TO BE WRITE FROM DISK UNIT
OPEN TIME
NOT FOUND
FOUND
150
140
WRITE AFTER OPERATION c
WRITE AFTER DATA IS NOT WRITTEN
WRITE WRITE AFTER OPERATION b
WRITE AFTER DATA IN FOUND RECORD
PROCESSING OF WRITE AFTER OPERATION b
24
DISK UNIT
CONTROL FIELD
GAP FIELD b
DATA FIELD
301
RECORD
600
605
601

FIG. 20

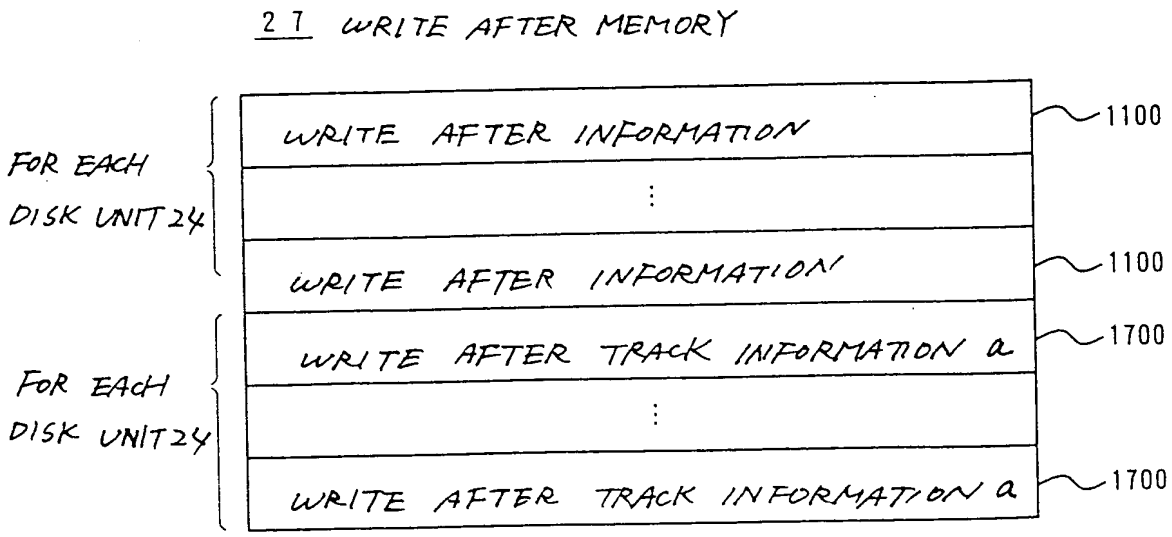
27 WRITE AFTER MEMORY
FOR EACH DISK UNIT 24
WRITE AFTER INFORMATION
WRITE AFTER INFORMATION
1100
1100
FOR EACH DISK UNIT 24
WRITE AFTER TRACK INFORMATION a
WRITE AFTER TRACK INFORMATION a
1700
1700

FIG. 21

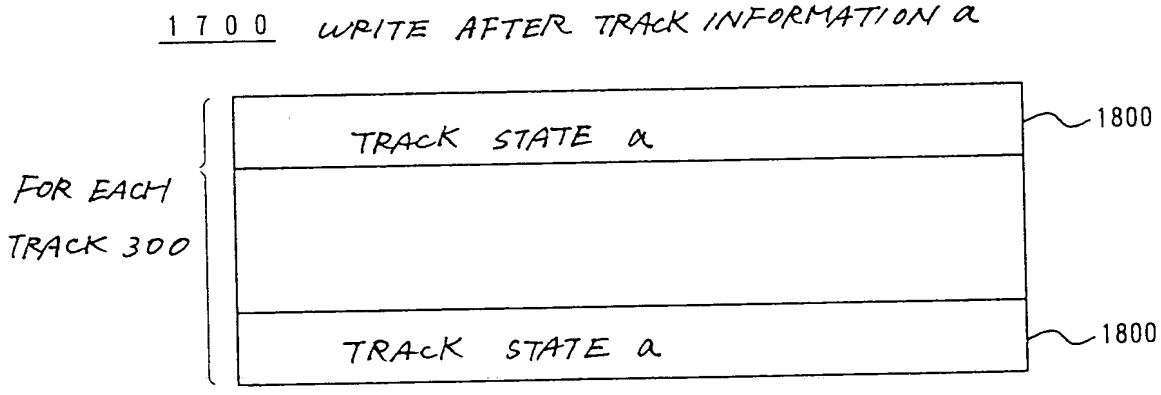
1700 WRITE AFTER TRACK INFORMATION a
FOR EACH TRACK 300
TRACK STATE a
TRACK STATE a
1800
1800

FIG. 22

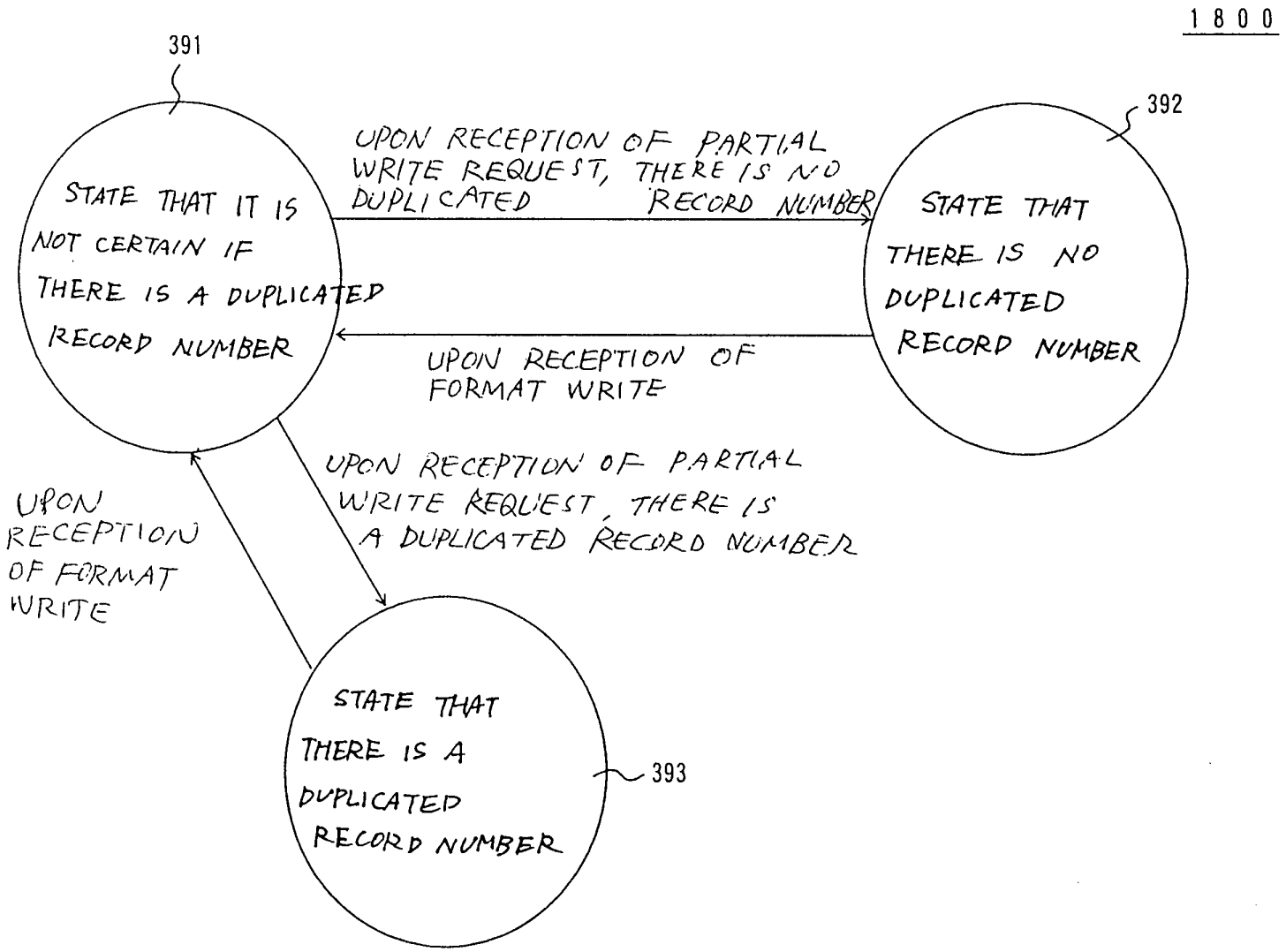
1800
391
STATE THAT IT IS NOT CERTAIN IF THERE IS A DUPLICATED RECORD NUMBER
392
STATE THAT THERE IS NO DUPLICATED RECORD NUMBER
UPON RECEPTION OF PARTIAL WRITE REQUEST, THERE IS NO DUPLICATED RECORD NUMBER
UPON RECEPTION OF FORMAT WRITE
UPON RECEPTION OF PARTIAL WRITE REQUEST, THERE IS A DUPLICATED RECORD NUMBER
UPON RECEPTION OF FORMAT WRITE
STATE THAT THERE IS A DUPLICATED RECORD NUMBER
393

FIG. 23

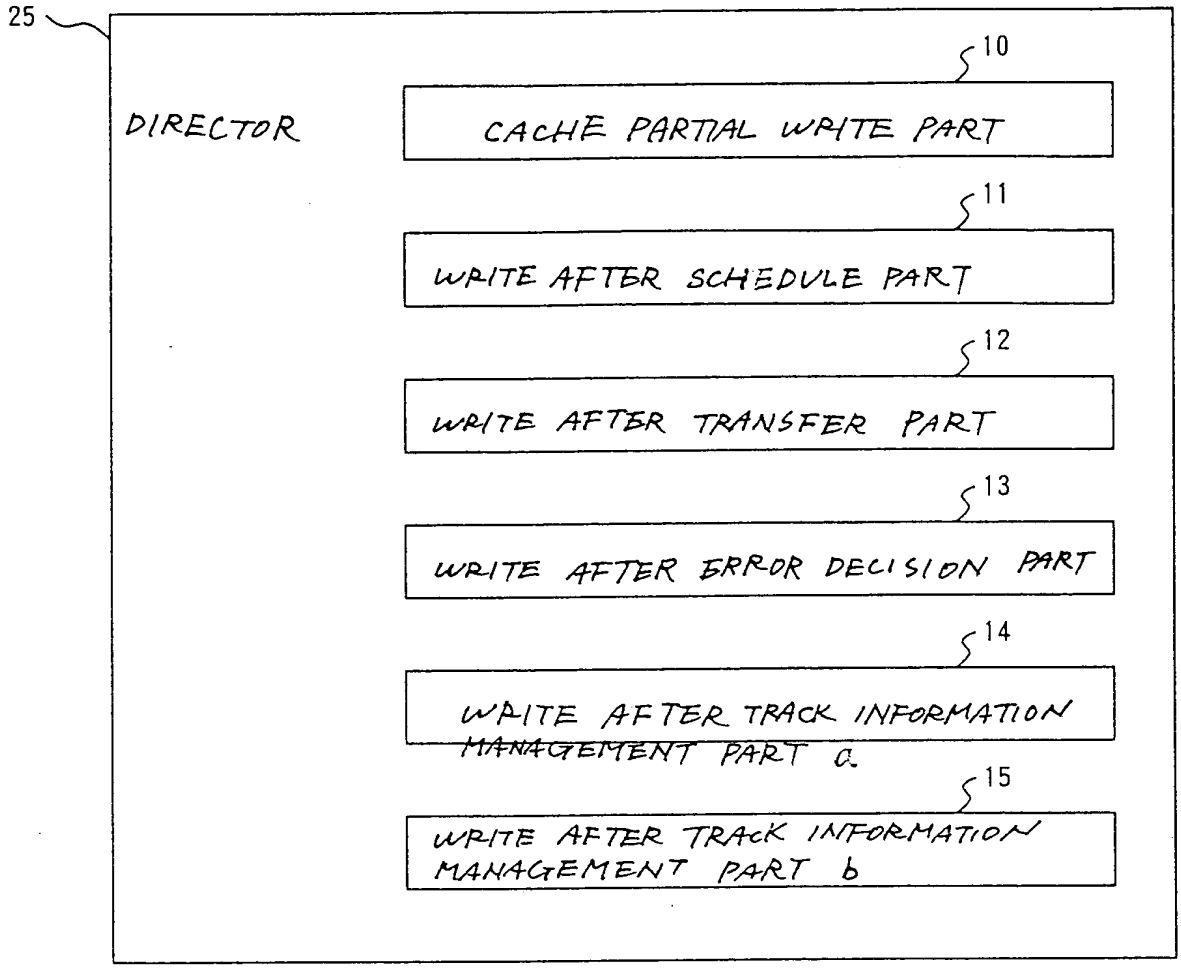
25
DIRECTOR
10
CACHE PARTIAL WRITE PART
11
WRITE AFTER SCHEDULE PART
12
WRITE AFTER TRANSFER PART
13
WRITE AFTER ERROR DECISION PART
14
WRITE AFTER TRACK INFORMATION MANAGEMENT PART a
15
WRITE AFTER TRACK INFORMATION MANAGEMENT PART b

FIG. 24 A

14

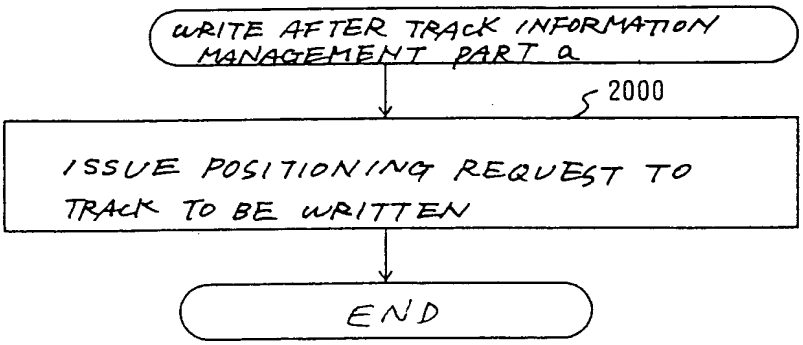

FIG. 24 B

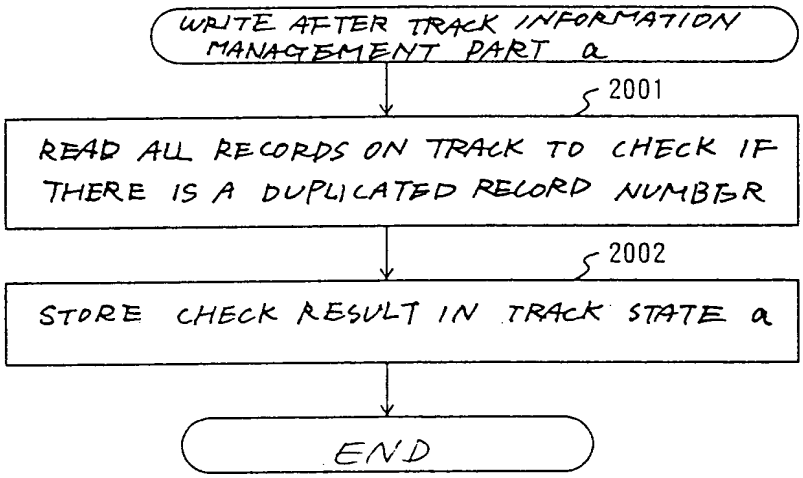

FIG. 25

15

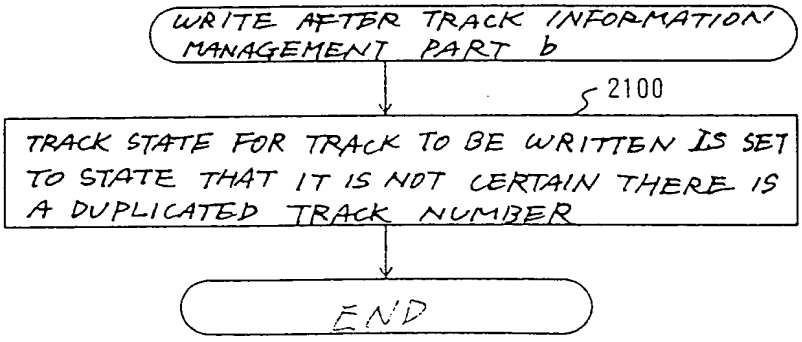

FIG. 26

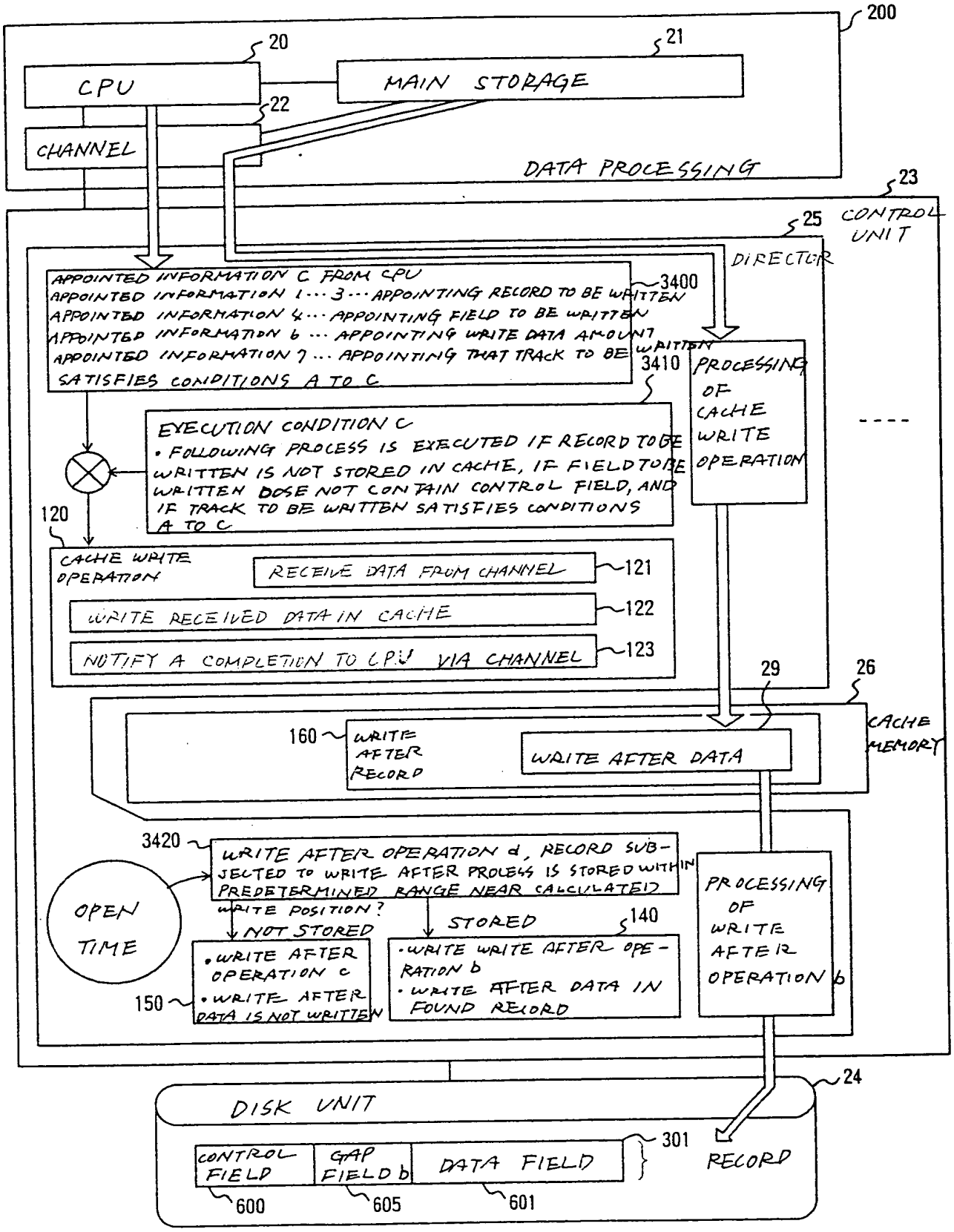
200
20
CPU
21
MAIN STORAGE
22
CHANNEL
DATA PROCESSING
23
CONTROL UNIT
25
DIRECTOR
APPOINTED INFORMATION C FROM CPU
APPOINTED INFORMATION 1 ··· 3 ··· APPOINTING RECORD TO BE WRITTEN
APPOINTED INFORMATION 4 ··· APPOINTING FIELD TO BE WRITTEN
APPOINTED INFORMATION 6 ··· APPOINTING WRITE DATA AMOUNT
APPOINTED INFORMATION 7 ··· APPOINTING THAT TRACK TO BE WRITTEN SATISFIES CONDITIONS A TO C
3400
3410
PROCESSING OF CACHE WRITE OPERATION
EXECUTION CONDITION C
• FOLLOWING PROCESS IS EXECUTED IF RECORD TO BE WRITTEN IS NOT STORED IN CACHE, IF FIELD TO BE WRITTEN DOSE NOT CONTAIN CONTROL FIELD, AND IF TRACK TO BE WRITTEN SATISFIES CONDITIONS A TO C
120
CACHE WRITE OPERATION
RECEIVE DATA FROM CHANNEL
121
WRITE RECEIVED DATA IN CACHE
122
NOTIFY A COMPLETION TO CPU VIA CHANNEL
123
29
26
CACHE MEMORY
160
WRITE AFTER RECORD
WRITE AFTER DATA
3420
WRITE AFTER OPERATION d, RECORD SUBJECTED TO WRITE AFTER PROCESS IS STORED WITHIN PREDETERMINED RANGE NEAR CALCULATED WRITE POSITION?
OPEN TIME
NOT STORED
STORED
140
• WRITE AFTER OPERATION c
• WRITE AFTER DATA IS NOT WRITTEN
150
• WRITE WRITE AFTER OPERATION b
• WRITE AFTER DATA IN FOUND RECORD
PROCESSING OF WRITE AFTER OPERATION b
24
DISK UNIT
CONTROL FIELD
GAP FIELD b
DATA FIELD
301
RECORD
600
605
601

FIG. 27

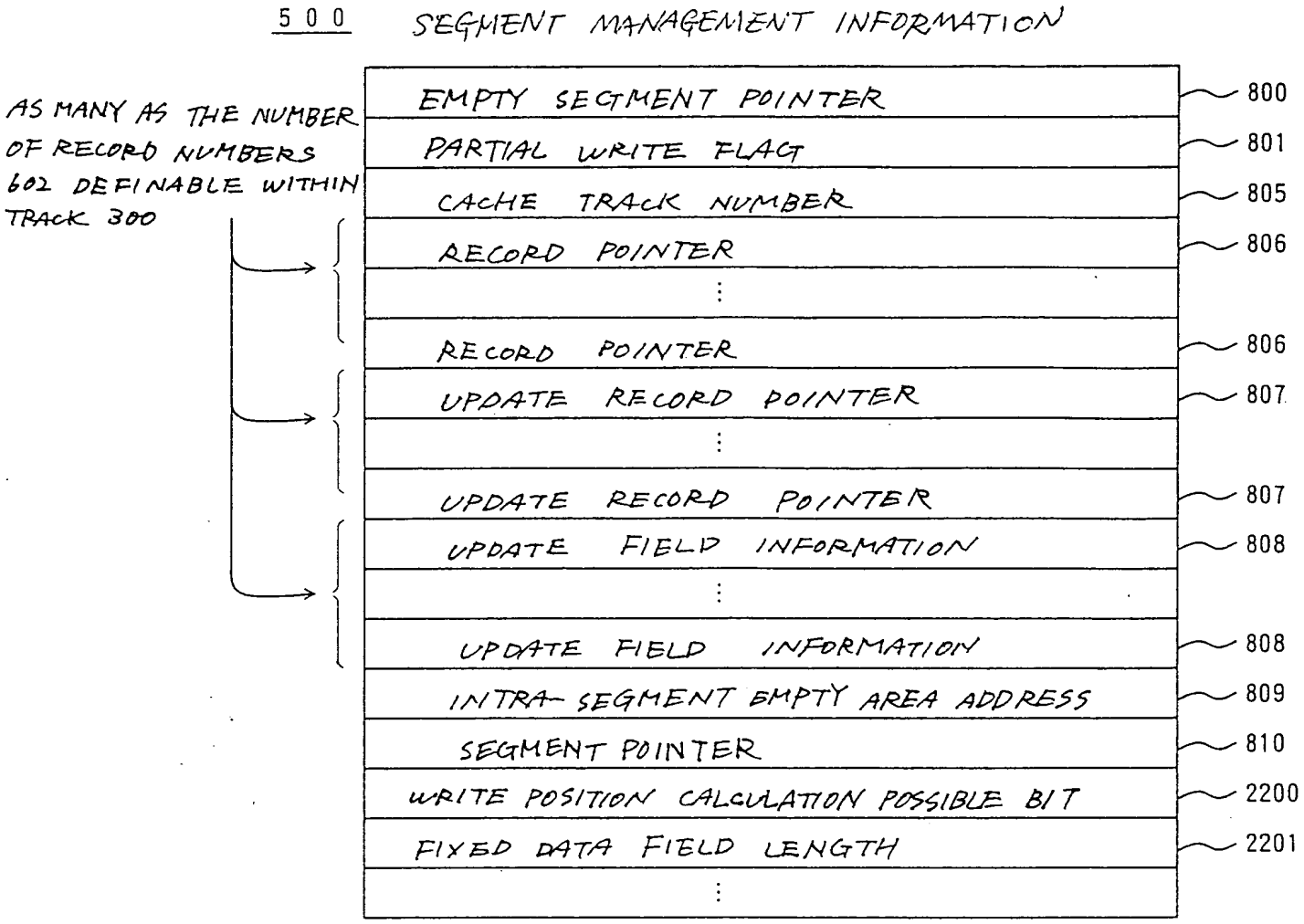
500
SEGMENT MANAGEMENT INFORMATION
AS MANY AS THE NUMBER OF RECORD NUMBERS 602 DEFINABLE WITHIN TRACK 300
EMPTY SEGMENT POINTER
800
PARTIAL WRITE FLAG
801
CACHE TRACK NUMBER
805
RECORD POINTER
806
RECORD POINTER
806
UPDATE RECORD POINTER
807
UPDATE RECORD POINTER
807
UPDATE FIELD INFORMATION
808
UPDATE FIELD INFORMATION
808
INTRA-SEGMENT EMPTY AREA ADDRESS
809
SEGMENT POINTER
810
WRITE POSITION CALCULATION POSSIBLE BIT
2200
FIXED DATA FIELD LENGTH
2201

FIG. 28

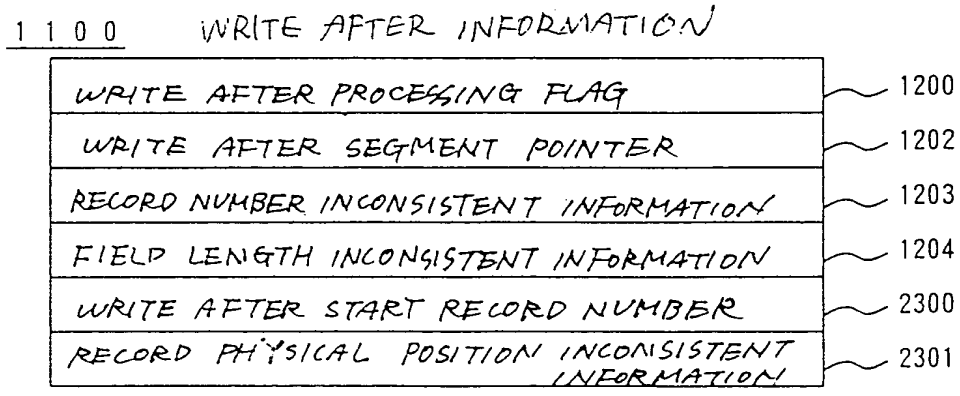
1100
WRITE AFTER INFORMATION
WRITE AFTER PROCESSING FLAG
1200
WRITE AFTER SEGMENT POINTER
1202
RECORD NUMBER INCONSISTENT INFORMATION
1203
FIELD LENGTH INCONSISTENT INFORMATION
1204
WRITE AFTER START RECORD NUMBER
2300
RECORD PHYSICAL POSITION INCONSISTENT INFORMATION
2301

FIG. 29

10

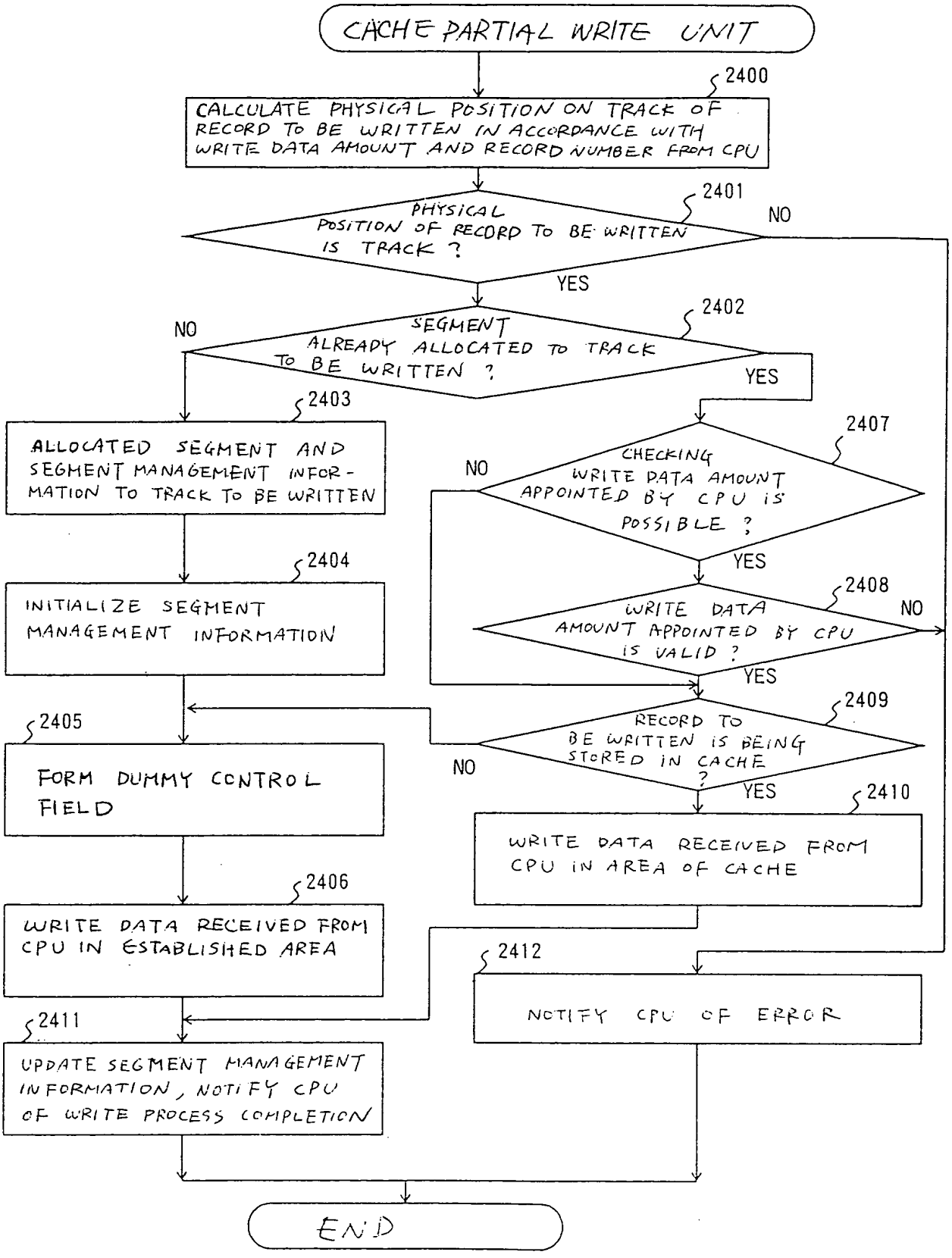
CACHE PARTIAL WRITE UNIT
2400
CALCULATE PHYSICAL POSITION ON TRACK OF RECORD TO BE WRITTEN IN ACCORDANCE WITH WRITE DATA AMOUNT AND RECORD NUMBER FROM CPU
2401
PHYSICAL POSITION OF RECORD TO BE WRITTEN IS TRACK ?
NO
YES
2402
SEGMENT ALREADY ALLOCATED TO TRACK TO BE WRITTEN ?
NO
YES
2403
ALLOCATED SEGMENT AND SEGMENT MANAGEMENT INFORMATION TO TRACK TO BE WRITTEN
2404
INITIALIZE SEGMENT MANAGEMENT INFORMATION
2405
FORM DUMMY CONTROL FIELD
2406
WRITE DATA RECEIVED FROM CPU IN ESTABLISHED AREA
2407
CHECKING WRITE DATA AMOUNT APPOINTED BY CPU IS POSSIBLE ?
NO
YES
2408
WRITE DATA AMOUNT APPOINTED BY CPU IS VALID ?
NO
YES
2409
RECORD TO BE WRITTEN IS BEING STORED IN CACHE ?
NO
YES
2410
WRITE DATA RECEIVED FROM CPU IN AREA OF CACHE
2411
UPDATE SEGMENT MANAGEMENT INFORMATION, NOTIFY CPU OF WRITE PROCESS COMPLETION
2412
NOTIFY CPU OF ERROR
END

FIG. 30

11

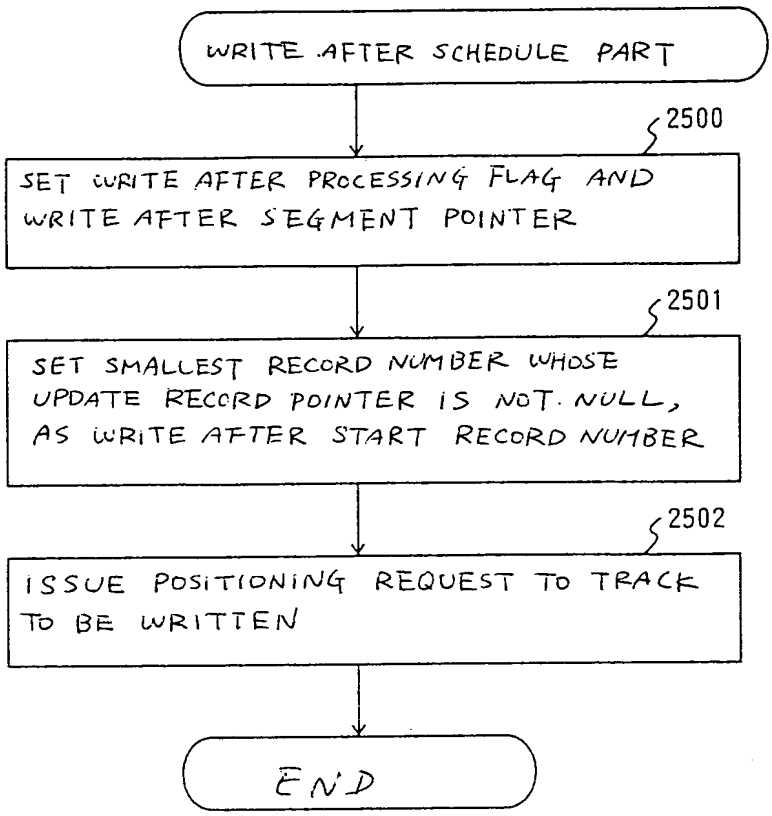
WRITE AFTER SCHEDULE PART
2500
SET WRITE AFTER PROCESSING FLAG AND WRITE AFTER SEGMENT POINTER
2501
SET SMALLEST RECORD NUMBER WHOSE UPDATE RECORD POINTER IS NOT NULL, AS WRITE AFTER START RECORD NUMBER
2502
ISSUE POSITIONING REQUEST TO TRACK TO BE WRITTEN
END

FIG. 31

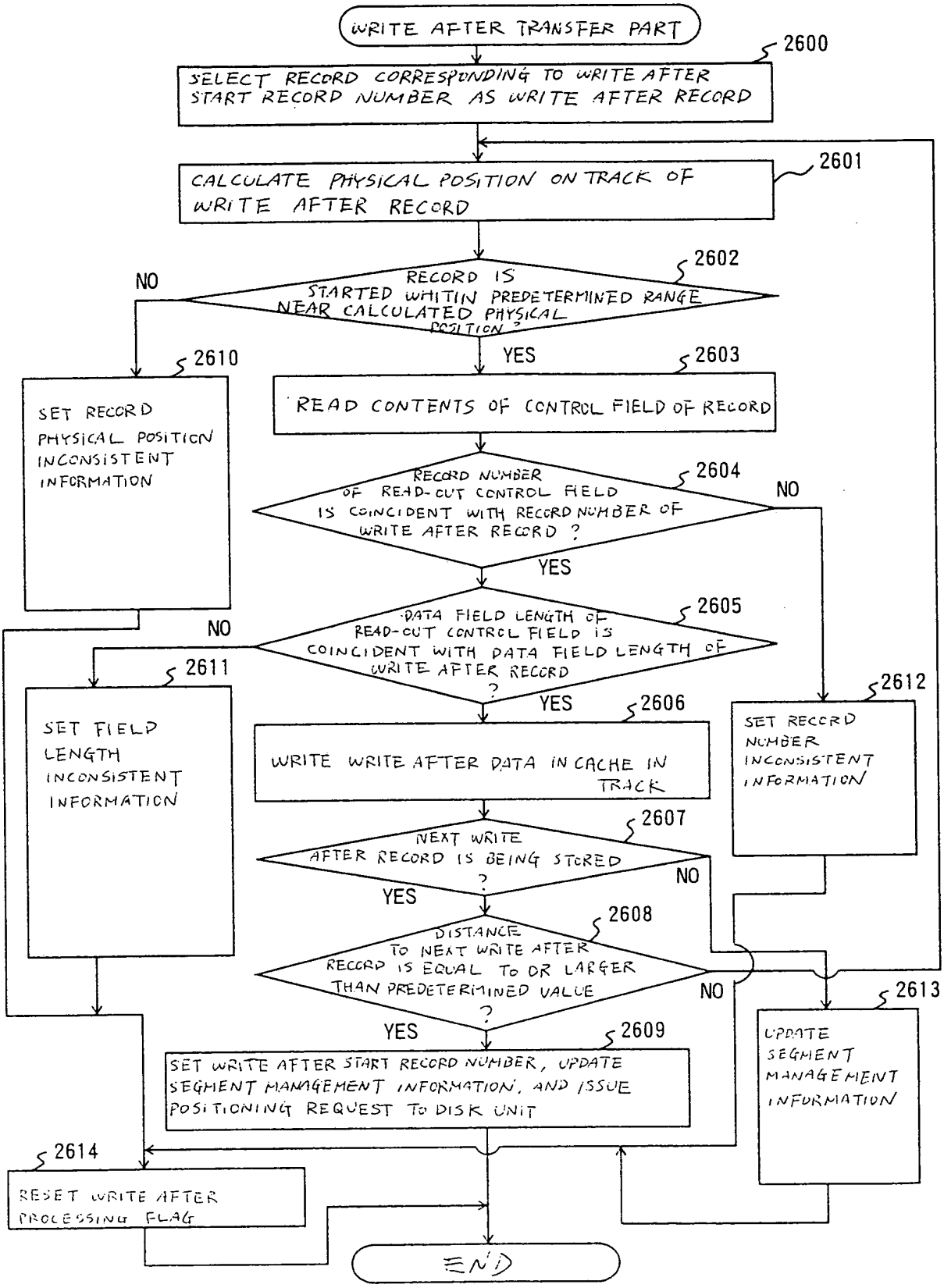
WRITE AFTER TRANSFER PART
2600
SELECT RECORD CORRESPONDING TO WRITE AFTER START RECORD NUMBER AS WRITE AFTER RECORD
2601
CALCULATE PHYSICAL POSITION ON TRACK OF WRITE AFTER RECORD
2602
RECORD IS STARTED WHITIN PREDETERMINED RANGE NEAR CALCULATED PHYSICAL POSITION ?
NO
YES
2610
SET RECORD PHYSICAL POSITION INCONSISTENT INFORMATION
2603
READ CONTENTS OF CONTROL FIELD OF RECORD
2604
RECORD NUMBER OF READ-OUT CONTROL FIELD IS COINCIDENT WITH RECORD NUMBER OF WRITE AFTER RECORD ?
NO
YES
2605
DATA FIELD LENGTH OF READ-OUT CONTROL FIELD IS COINCIDENT WITH DATA FIELD LENGTH OF WRITE AFTER RECORD ?
NO
YES
2611
SET FIELD LENGTH INCONSISTENT INFORMATION
2612
SET RECORD NUMBER INCONSISTENT INFORMATION
2606
WRITE WRITE AFTER DATA IN CACHE IN TRACK
2607
NEXT WRITE AFTER RECORD IS BEING STORED ?
NO
YES
2608
DISTANCE TO NEXT WRITE AFTER RECORD IS EQUAL TO OR LARGER THAN PREDETERMINED VALUE ?
NO
YES
2613
UPDATE SEGMENT MANAGEMENT INFORMATION
2609
SET WRITE AFTER START RECORD NUMBER, UPDATE SEGMENT MANAGEMENT INFORMATION, AND ISSUE POSITIONING REQUEST TO DISK UNIT
2614
RESET WRITE AFTER PROCESSING FLAG
END

FIG. 32

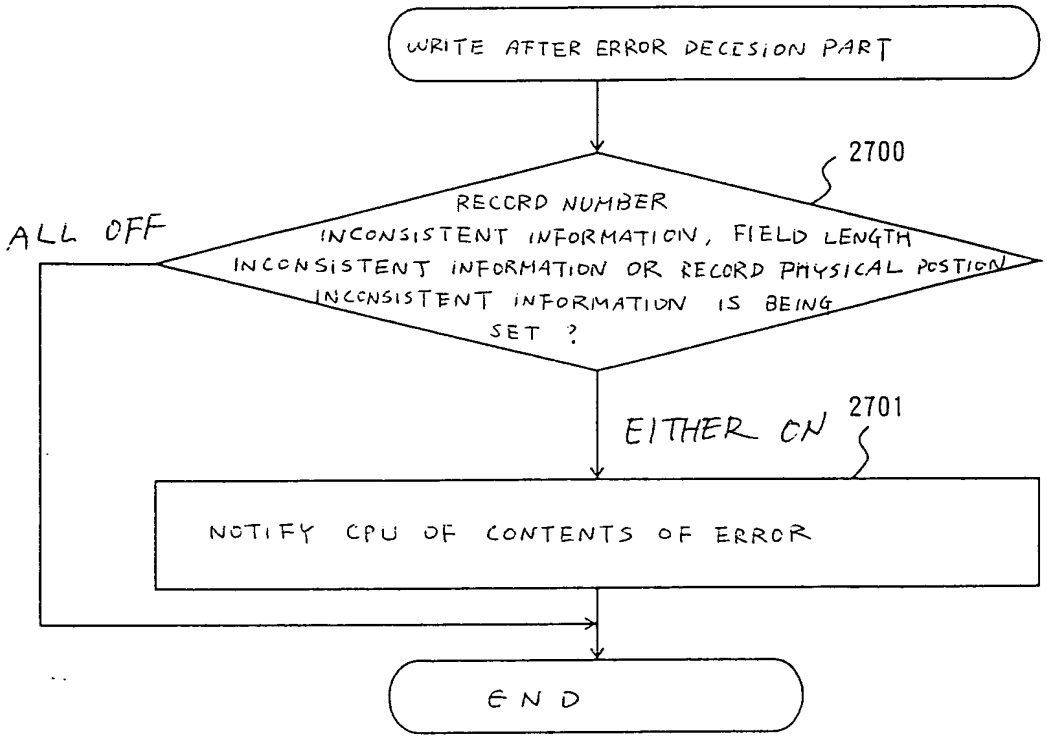
WRITE AFTER ERROR DECESION PART
2700
RECORD NUMBER INCONSISTENT INFORMATION, FIELD LENGTH INCONSISTENT INFORMATION OR RECORD PHYSICAL POSTION INCONSISTENT INFORMATION IS BEING SET ?
ALL OFF
EITHER ON
2701
NOTIFY CPU OF CONTENTS OF ERROR
END

FIG. 33

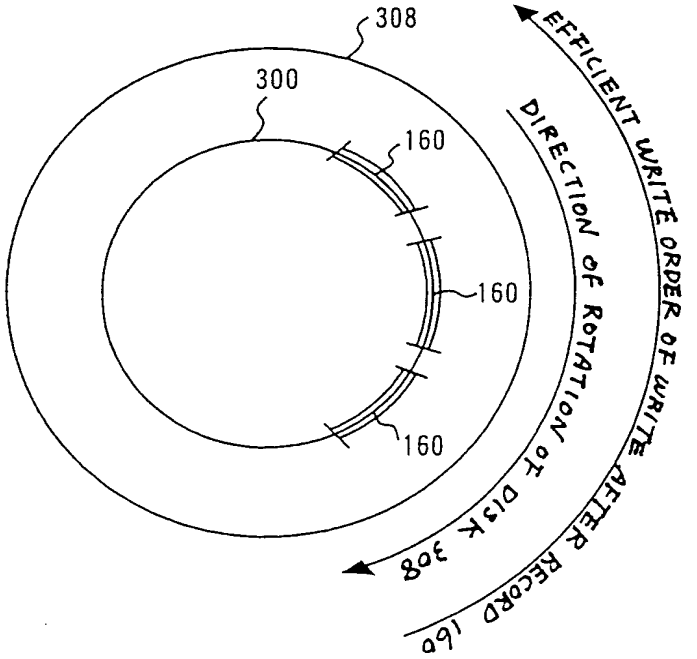
308
300
160
160
160
EFFICIENT WRITE ORDER OF WRITE AFTER RECORD 160
DIRECTION OF ROTATION OF DISK 308

FIG. 34

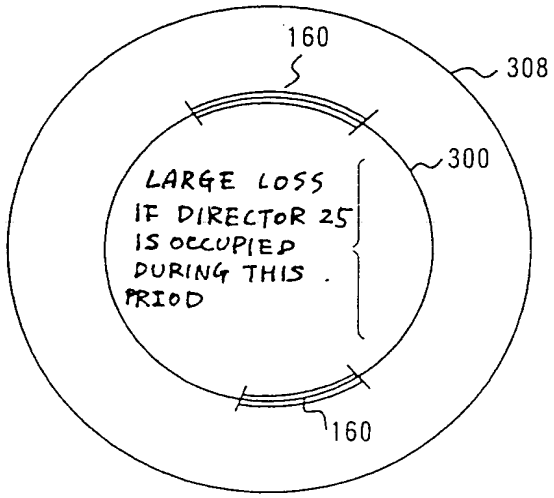
160
308
300
LARGE LOSS IF DIRECTOR 25 IS OCCUPIED DURING THIS PRIOD
160

FIG. 35

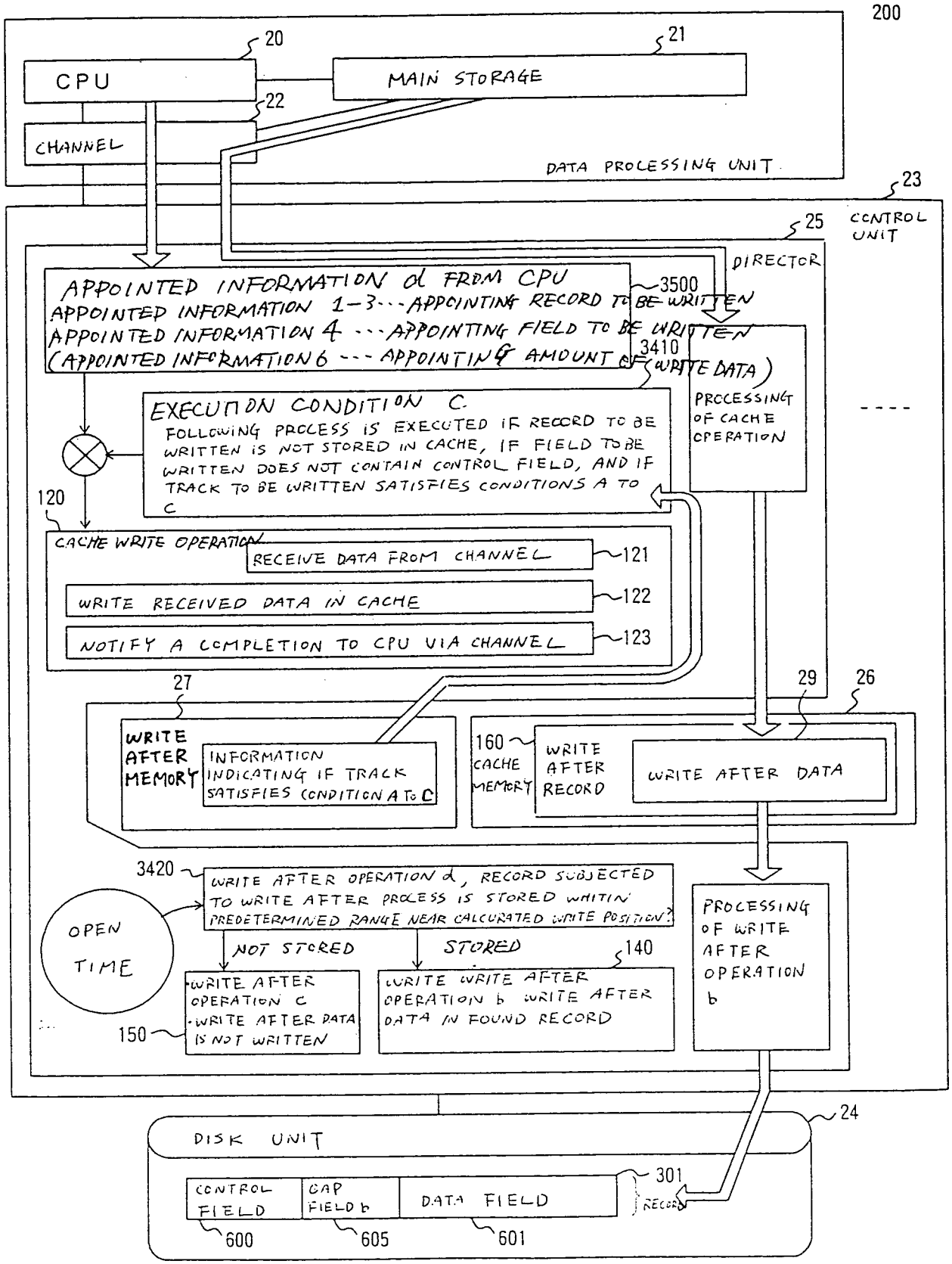
200
20
CPU
21
MAIN STORAGE
22
CHANNEL
DATA PROCESSING UNIT
23
CONTROL UNIT
25
DIRECTOR
APPOINTED INFORMATION d FROM CPU
APPOINTED INFORMATION 1-3 ... APPOINTING RECORD TO BE WRITTEN
APPOINTED INFORMATION 4 ... APPOINTING FIELD TO BE WRITTEN
APPOINTED INFORMATION 6 ... APPOINTING AMOUNT OF WRITE DATA
3500
3410
PROCESSING OF CACHE OPERATION
EXECUTION CONDITION C
FOLLOWING PROCESS IS EXECUTED IF RECORD TO BE WRITTEN IS NOT STORED IN CACHE, IF FIELD TO BE WRITTEN DOES NOT CONTAIN CONTROL FIELD, AND IF TRACK TO BE WRITTEN SATISFIES CONDITIONS A TO C
120
CACHE WRITE OPERATION
RECEIVE DATA FROM CHANNEL
121
WRITE RECEIVED DATA IN CACHE
122
NOTIFY A COMPLETION TO CPU VIA CHANNEL
123
27
WRITE AFTER MEMORY
INFORMATION INDICATING IF TRACK SATISFIES CONDITION A TO C
29
26
160
CACHE MEMORY
WRITE AFTER RECORD
WRITE AFTER DATA
3420
WRITE AFTER OPERATION d, RECORD SUBJECTED TO WRITE AFTER PROCESS IS STORED WITHIN PREDETERMINED RANGE NEAR CALCURATED WRITE POSITION?
OPEN TIME
NOT STORED
STORED
140
WRITE AFTER OPERATION C
WRITE AFTER DATA IS NOT WRITTEN
150
WRITE WRITE AFTER OPERATION b WRITE AFTER DATA IN FOUND RECORD
PROCESSING OF WRITE AFTER OPERATION b
24
DISK UNIT
301
CONTROL FIELD
CAP FIELD b
DATA FIELD
RECORD
600
605
601

FIG. 36

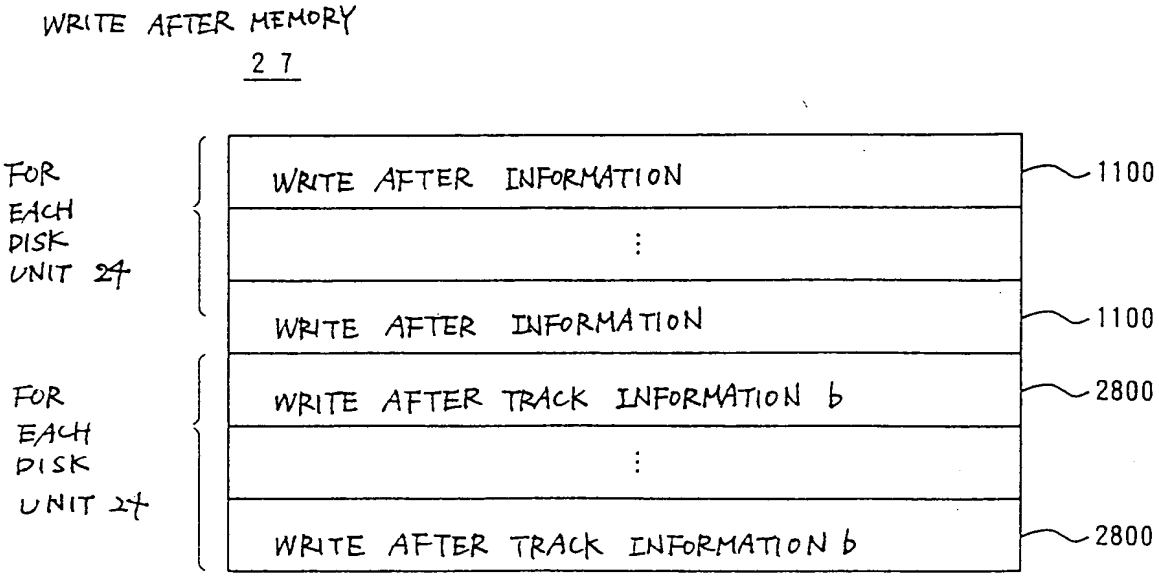
WRITE AFTER MEMORY
27
FOR EACH DISK UNIT 24
WRITE AFTER INFORMATION
1100
WRITE AFTER INFORMATION
1100
FOR EACH DISK UNIT 24
WRITE AFTER TRACK INFORMATION b
2800
WRITE AFTER TRACK INFORMATION b
2800

FIG. 37

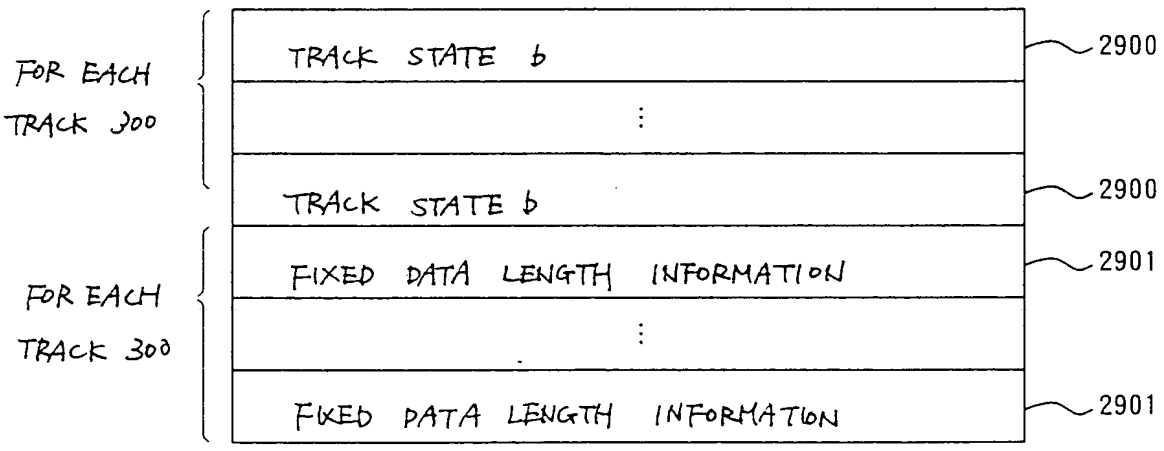
WRITE AFTER TRACK INFORMATION
2800
FOR EACH TRACK 300
TRACK STATE b
2900
TRACK STATE b
2900
FOR EACH TRACK 300
FIXED DATA LENGTH INFORMATION
2901
FIXED DATA LENGTH INFORMATION
2901

FIG. 38

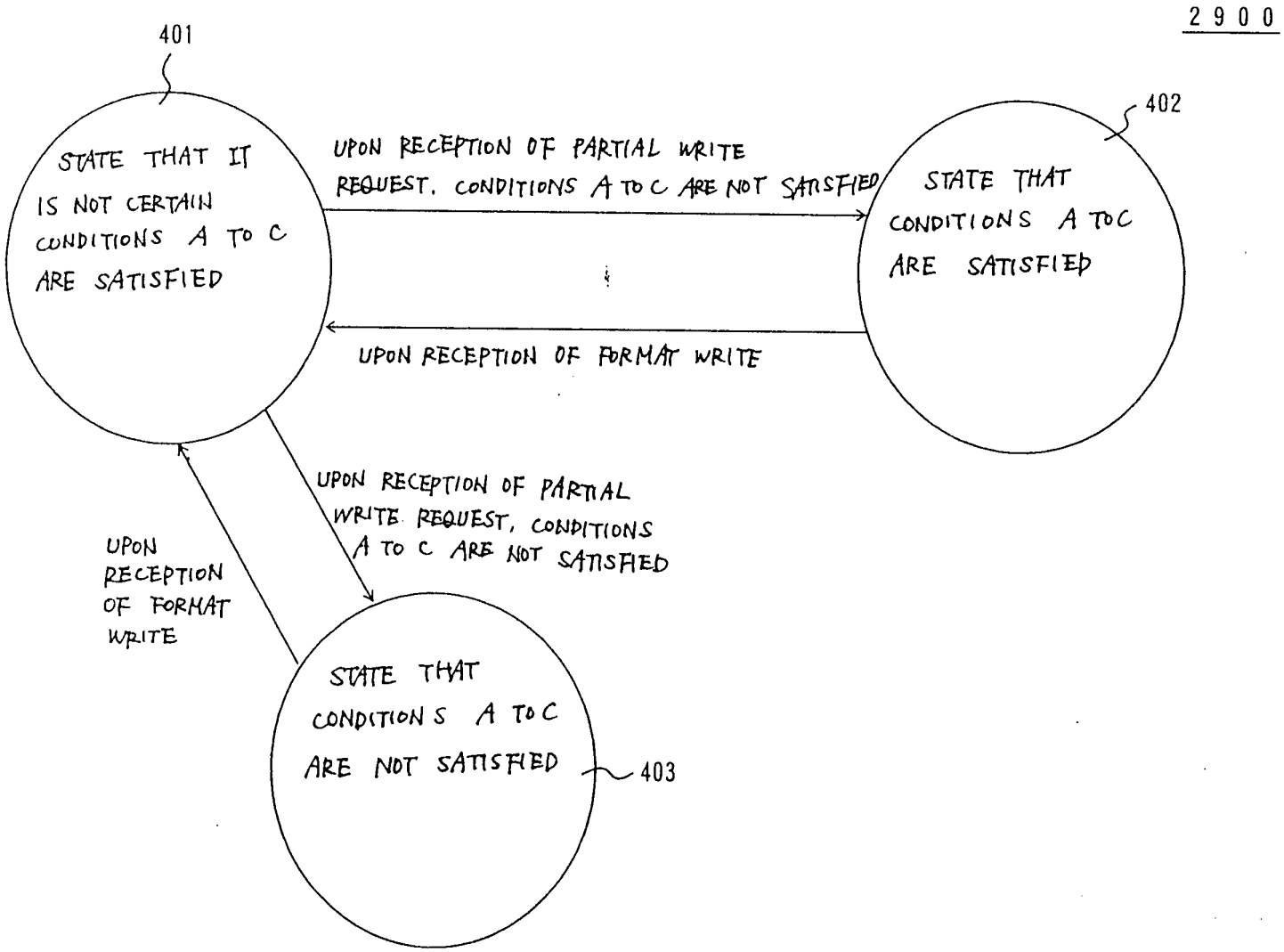
2900
401
STATE THAT IT IS NOT CERTAIN CONDITIONS A TO C ARE SATISFIED
UPON RECEPTION OF PARTIAL WRITE REQUEST, CONDITIONS A TO C ARE NOT SATISFIED
402
STATE THAT CONDITIONS A TO C ARE SATISFIED
UPON RECEPTION OF FORMAT WRITE
UPON RECEPTION OF PARTIAL WRITE REQUEST, CONDITIONS A TO C ARE NOT SATISFIED
UPON RECEPTION OF FORMAT WRITE
STATE THAT CONDITIONS A TO C ARE NOT SATISFIED
403

FIG. 39

10

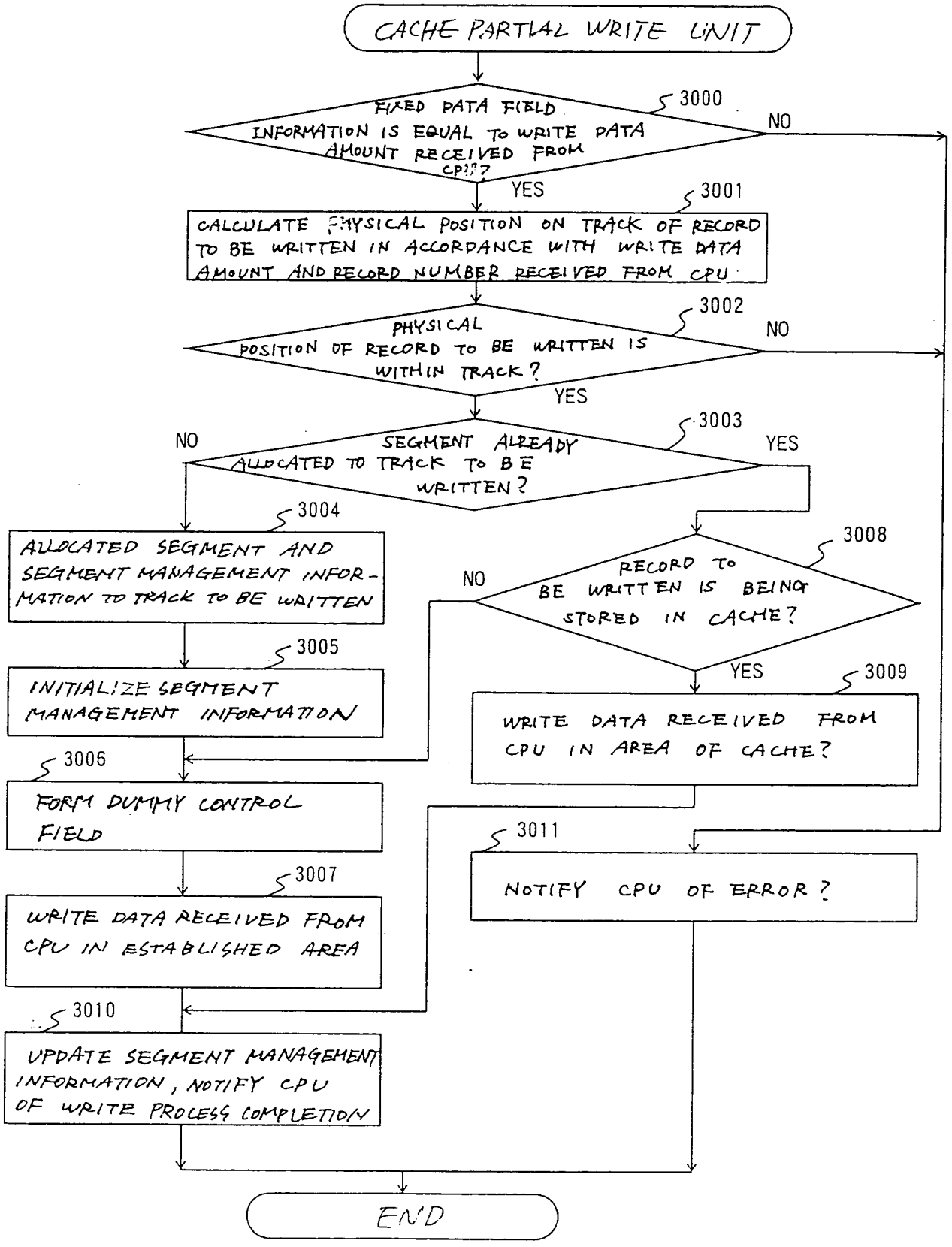
CACHE PARTIAL WRITE UNIT
3000
FIXED DATA FIELD INFORMATION IS EQUAL TO WRITE DATA AMOUNT RECEIVED FROM CPU?
NO
YES
3001
CALCULATE PHYSICAL POSITION ON TRACK OF RECORD TO BE WRITTEN IN ACCORDANCE WITH WRITE DATA AMOUNT AND RECORD NUMBER RECEIVED FROM CPU
3002
PHYSICAL POSITION OF RECORD TO BE WRITTEN IS WITHIN TRACK?
NO
YES
3003
SEGMENT ALREADY ALLOCATED TO TRACK TO BE WRITTEN?
NO
YES
3004
ALLOCATED SEGMENT AND SEGMENT MANAGEMENT INFORMATION TO TRACK TO BE WRITTEN
3005
INITIALIZE SEGMENT MANAGEMENT INFORMATION
3006
FORM DUMMY CONTROL FIELD
3007
WRITE DATA RECEIVED FROM CPU IN ESTABLISHED AREA
3008
RECORD TO BE WRITTEN IS BEING STORED IN CACHE?
NO
YES
3009
WRITE DATA RECEIVED FROM CPU IN AREA OF CACHE?
3010
UPDATE SEGMENT MANAGEMENT INFORMATION, NOTIFY CPU OF WRITE PROCESS COMPLETION
3011
NOTIFY CPU OF ERROR?
END

FIG. 40 A

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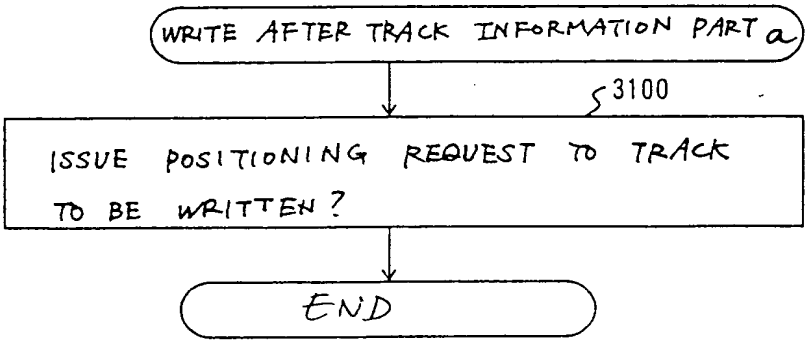


FIG. 40 B

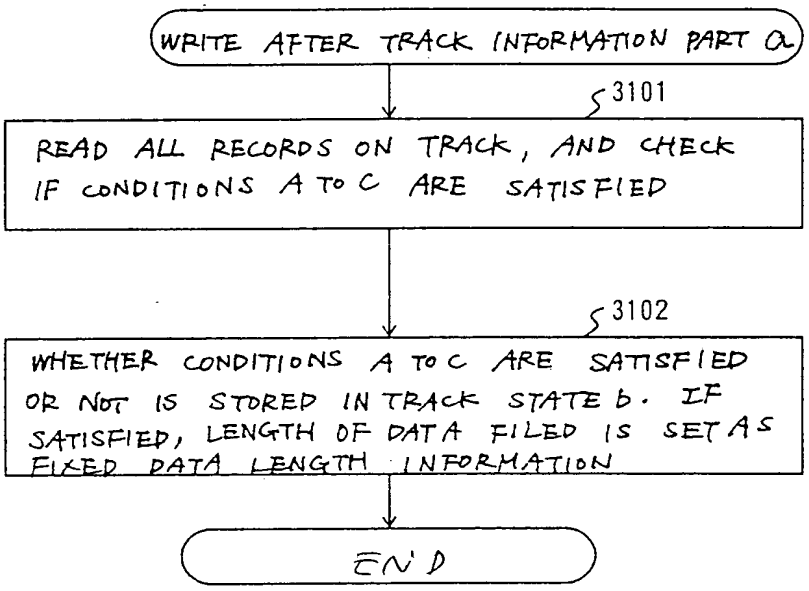


FIG. 41

15

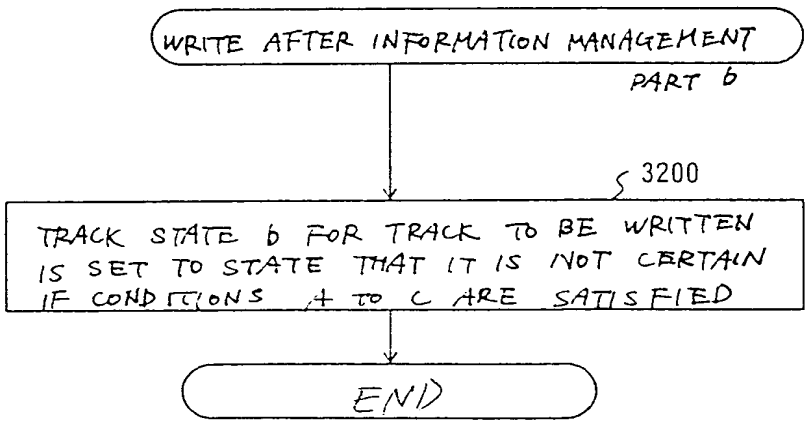
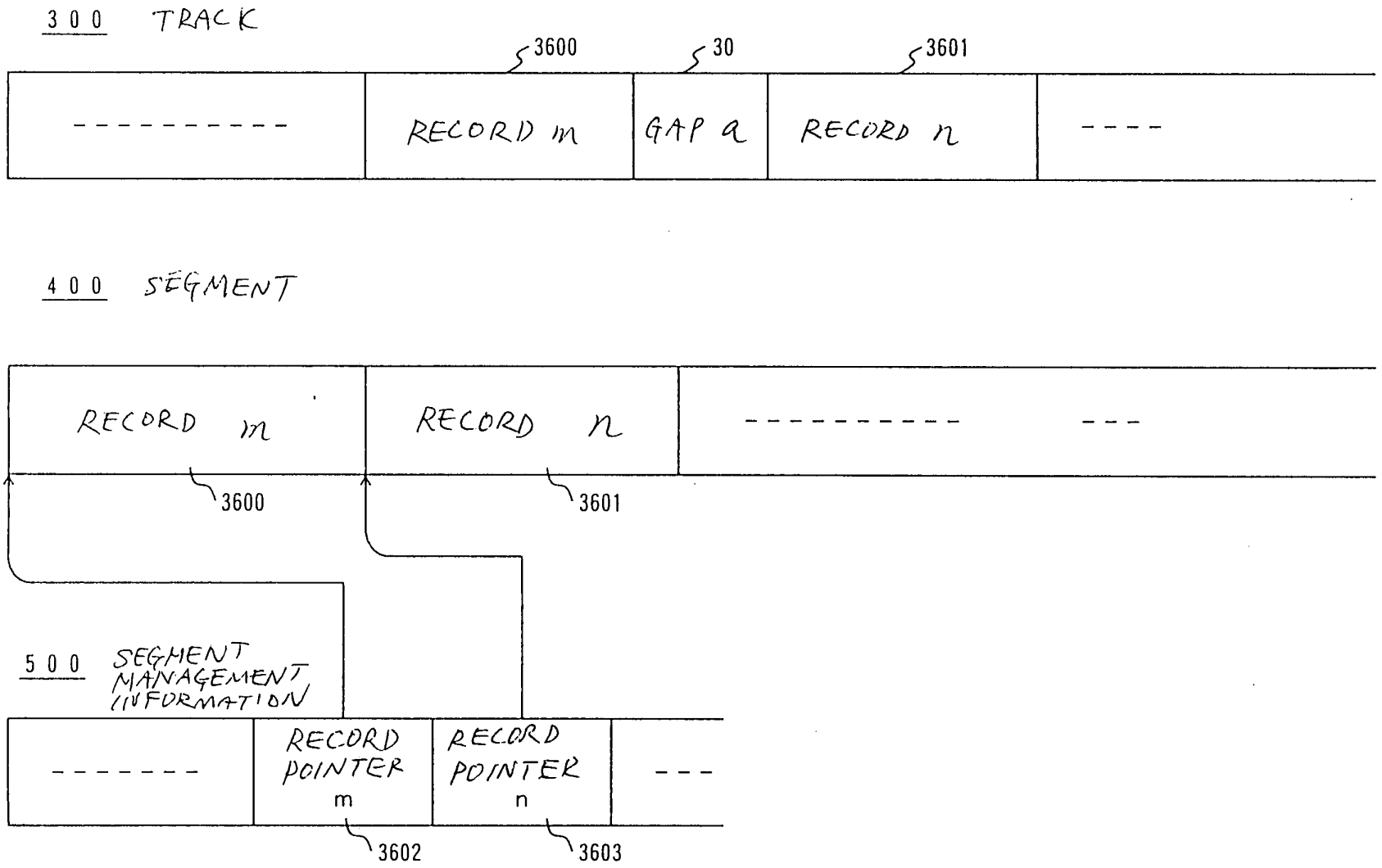


FIG. 42


300 TRACK
3600
30
3601

RECORD m
GAP a
RECORD n
----
400 SEGMENT
RECORD m
RECORD n

3600
3601
500 SEGMENT MANAGEMENT INFORMATION

RECORD POINTER m
RECORD POINTER n

3602
3603

FIG. 43 A

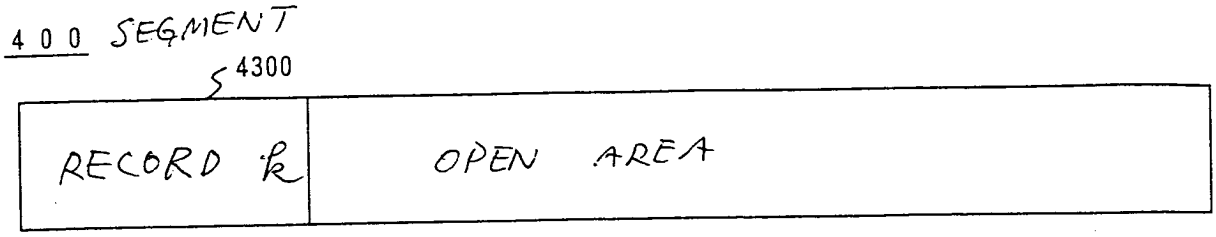


FIG. 43 B

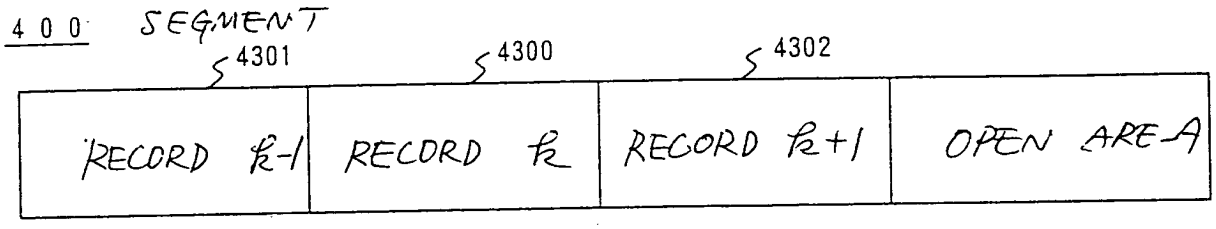


FIG. 43 C

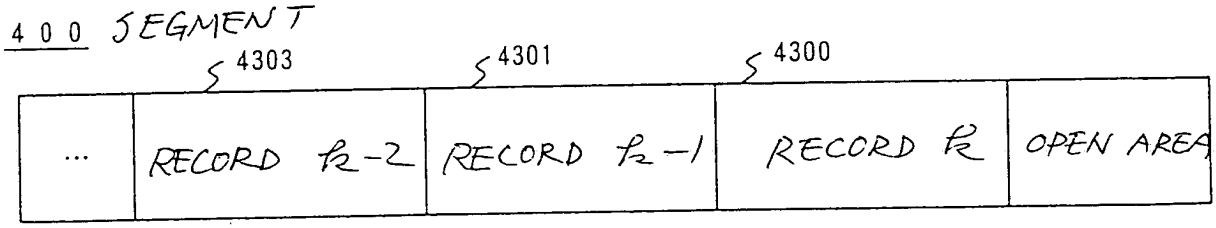


FIG. 44

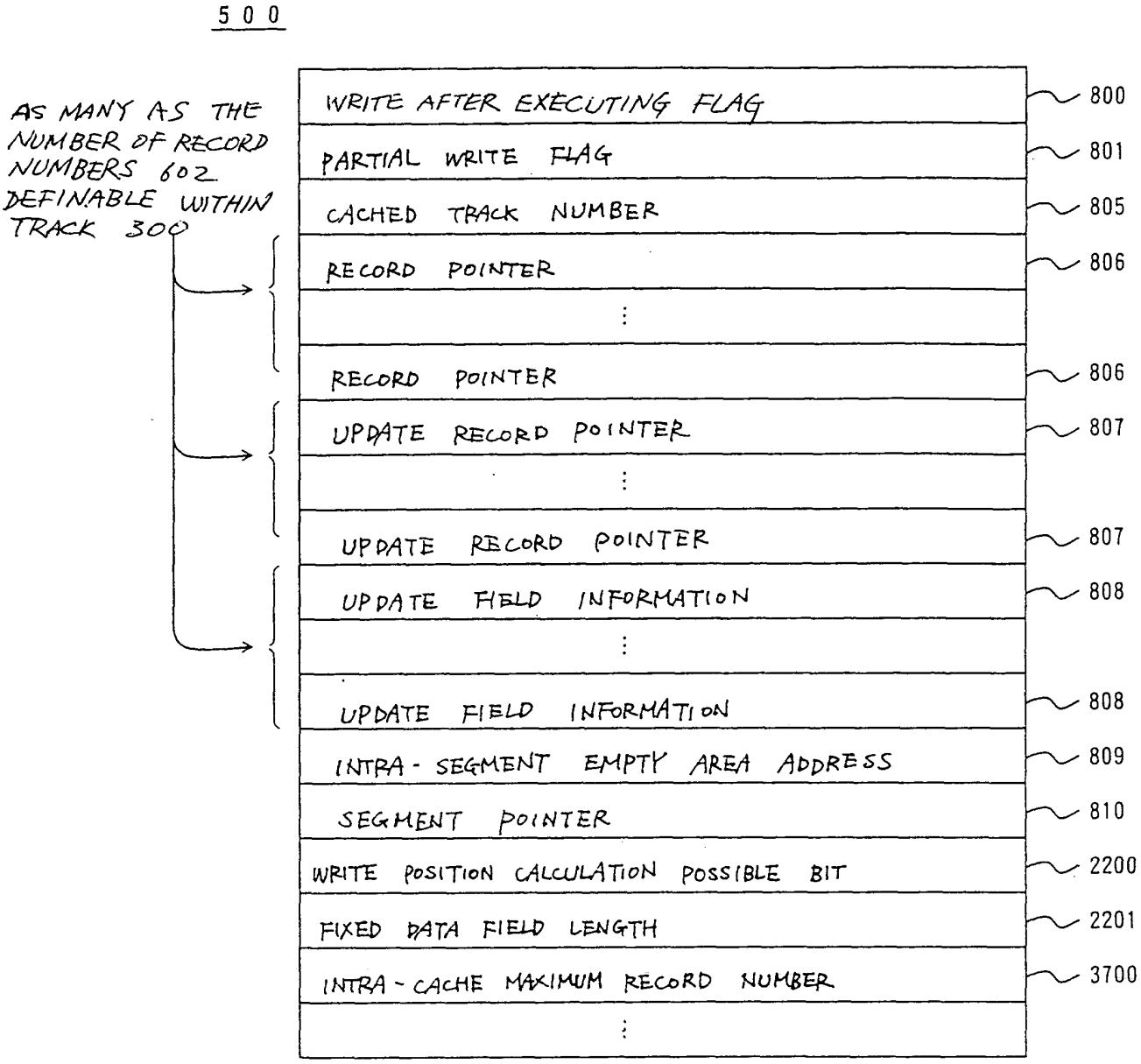
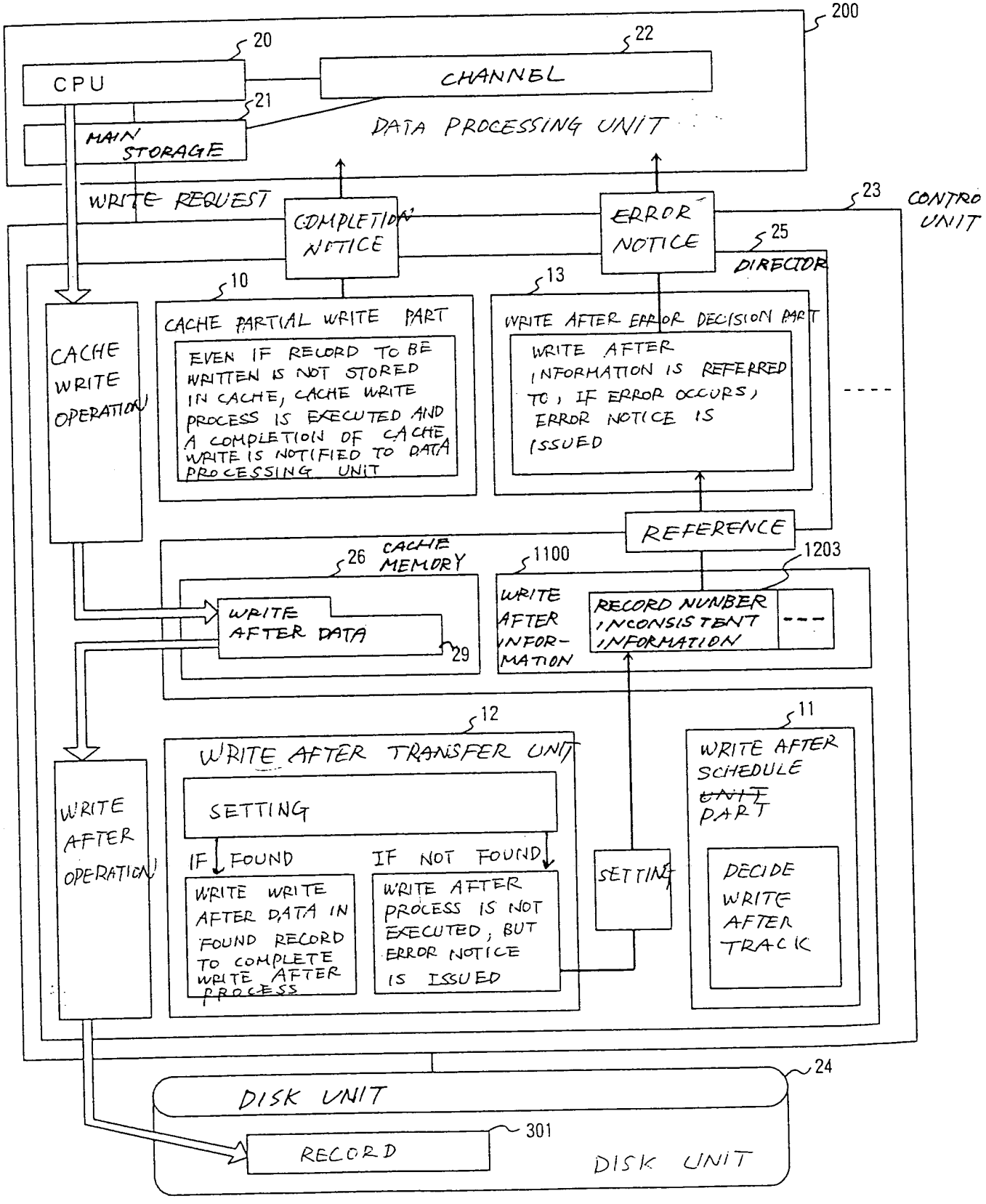

500
AS MANY AS THE NUMBER OF RECORD NUMBERS 602 DEFINABLE WITHIN TRACK 300
WRITE AFTER EXECUTING FLAG
800
PARTIAL WRITE FLAG
801
CACHED TRACK NUMBER
805
RECORD POINTER
806
RECORD POINTER
806
UPDATE RECORD POINTER
807
UPDATE RECORD POINTER
807
UPDATE FIELD INFORMATION
808
UPDATE FIELD INFORMATION
808
INTRA-SEGMENT EMPTY AREA ADDRESS
809
SEGMENT POINTER
810
WRITE POSITION CALCULATION POSSIBLE BIT
2200
FIXED DATA FIELD LENGTH
2201
INTRA-CACHE MAXIMUM RECORD NUMBER
3700

FIG. 45


200
20
CPU
22
CHANNEL
21
MAIN STORAGE
DATA PROCESSING UNIT
WRITE REQUEST
COMPLETION NOTICE
ERROR NOTICE
23
CONTRO UNIT
25
DIRECTOR
10
CACHE PARTIAL WRITE PART
EVEN IF RECORD TO BE WRITTEN IS NOT STORED IN CACHE, CACHE WRITE PROCESS IS EXECUTED AND A COMPLETION OF CACHE WRITE IS NOTIFIED TO DATA PROCESSING UNIT
13
WRITE AFTER ERROR DECISION PART
WRITE AFTER INFORMATION IS REFERRED TO, IF ERROR OCCURS, ERROR NOTICE IS ISSUED
CACHE WRITE OPERATION
REFERENCE
26
CACHE MEMORY
1100
1203
WRITE AFTER DATA
29
WRITE AFTER INFOR-MATION
RECORD NUMBER, INCONSISTENT INFORMATION
12
WRITE AFTER TRANSFER UNIT
11
WRITE AFTER SCHEDULE UNIT PART
WRITE AFTER OPERATION
SETTING
IF FOUND
IF NOT FOUND
SETTING
DECIDE WRITE AFTER TRACK
WRITE WRITE AFTER DATA IN FOUND RECORD TO COMPLETE WRITE AFTER PROCESS
WRITE AFTER PROCESS IS NOT EXECUTED, BUT ERROR NOTICE IS ISSUED
24
DISK UNIT
301
RECORD
DISK UNIT